Invitae Corp Form 424B3 October 06, 2017 Table of Contents

> Filed Pursuant to Rule 424(b)(3) Registration No. 333-220448

#### PROSPECTUS/OFFER TO EXCHANGE

#### INVITAE CORPORATION

Offer by Invitae Corporation

to Exchange Each Outstanding Series F Warrant to Acquire Shares of Common Stock

of

#### COMBIMATRIX CORPORATION

for

## **Shares of Common Stock of Invitae Corporation**

subject to the procedures described in this prospectus/offer to exchange and the related letter of transmittal

# THE OFFER AND THE WITHDRAWAL RIGHTS WILL EXPIRE AT 12:00 MIDNIGHT, NEW YORK CITY TIME, ON NOVEMBER 13, 2017, UNLESS EXTENDED.

Invitae Corporation, or Invitae, is offering to exchange for each outstanding Series F warrant to acquire one share of common stock of CombiMatrix Corporation, or CombiMatrix, validly tendered and not withdrawn in the offer, 0.3056 of a share of Invitae common stock, or the Warrant Exchange Ratio, subject to the procedures described in this document and the related letter of transmittal, and with cash issued in lieu of fractional shares of Invitae common stock (which, as may be amended, supplemented or otherwise modified from time to time, constitutes the Offer ). The Offer is being made pursuant to an Agreement and Plan of Merger and Reorganization, dated July 31, 2017, or the Merger Agreement, pursuant to which Coronado Merger Sub, Inc., a wholly owned subsidiary of Invitae, will merge with and into CombiMatrix, with CombiMatrix surviving as a wholly owned subsidiary of Invitae, which is referred to as the Merger. The Warrant Exchange Ratio was calculated as the quotient (rounded to the nearest ten-thousandth) obtained by dividing \$2.90 by the average closing price for shares of Invitae common stock on the NYSE for the immediately preceding period of 30 trading days prior to the date of the Merger Agreement, or \$9.491, which is referred to in the Merger Agreement as the Invitae Trailing Average Share Value.

Invitae s obligation to accept for exchange, and to exchange, CombiMatrix Series F warrants for shares of Invitae common stock and cash in lieu of fractional shares of Invitae common stock in the Offer is subject to a number of conditions, which are more fully described in the section entitled *The Offer Conditions of the Offer* of this prospectus/offer to exchange.

Invitae s common stock is listed on the NYSE under the symbol NVTA. CombiMatrix Series F warrants are listed on the NASDAQ Capital Market under the symbol CBMXW.

For a discussion of certain factors that CombiMatrix Series F warrant holders should consider in connection with the Offer, please carefully read the section entitled *Risk Factors* beginning on page 32 of this prospectus/offer to exchange.

Invitae has not authorized any person to provide any information or to make any representation in connection with the Offer other than the information contained in, annexed to or incorporated by reference in this document, and if any person provides any information or makes any representation of this kind, that information or representation must not be relied upon as having been authorized by Invitae.

Neither the Securities and Exchange Commission, or the SEC, nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus/offer to exchange. Any representation to the contrary is a criminal offense.

The date of this prospectus/offer to exchange is October 6, 2017.

#### ADDITIONAL INFORMATION

This prospectus/offer to exchange incorporates important business and financial information about Invitae and CombiMatrix from documents that each company has filed with the SEC, including certain documents of CombiMatrix attached as annexes to this prospectus/offer to exchange and certain documents of Invitae incorporated by reference that have not been included in or delivered with this document. This information is available to you without charge upon your oral or written request. You may read and copy documents incorporated by reference in this document, other than certain exhibits to those documents, at the SEC s Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. You can also obtain such documents free of charge through the SEC s website (www.sec.gov) or by requesting them in writing or by telephone from the appropriate company at the following addresses:

## **Invitae Corporation**

**CombiMatrix Corporation** 

1400 16th Street

300 Goddard, Suite 100

San Francisco, CA 94103

Irvine, CA 92618

(415) 374-7782

(949) 753-0624

Attn.: Investor Relations

Attn.: Investor Relations

If you would like to request any documents, please do so by no later than five business days prior to the Expiration Date to receive them before the Expiration Date of the Offer.

You should rely only on information contained in this prospectus/offer to exchange, attached within an annex to this prospectus/offer to exchange, or incorporated by reference into this prospectus/offer to exchange. No one has been authorized to provide you with information that is different from the information contained in, attached as an annex to, or incorporated by reference into, this document. You should not assume that the information contained in, attached as an annex to, or incorporated by reference into, this document is accurate as of any date other than the date of this document, the respective dates of the applicable annexes, or the respective dates of the information incorporated by reference into this document. Neither the mailing of this document to CombiMatrix Series F warrant holders, nor the issuance by Invitae of common stock in connection with the Offer, will create any implication to the contrary. For a listing of certain documents attached as annexes or incorporated by reference into this document, please see the section entitled *Where You Can Find More Information*.

Information on the websites of Invitae or CombiMatrix, or any subsidiary of Invitae or CombiMatrix, is not part of this prospectus/offer to exchange. You should not rely on that information in deciding whether to tender pursuant to the Offer.

#### ABOUT THIS DOCUMENT

This prospectus/offer to exchange forms a part of a registration statement on Form S-4 (Registration No. 333-220448) filed by Invitae with the Securities and Exchange Commission and constitutes a prospectus of Invitae under Section 5 of the Securities Act, and the rules thereunder, with respect to the shares of Invitae common stock to be issued in the Offer. In addition, it constitutes an offer to exchange with respect to the Offer.

Invitae is not asking you for a proxy and you are requested not to send us a proxy. Invitae is asking that CombiMatrix Series F warrant holders that choose to tender their Series F warrants in the Offer send the documents and/or comply with procedures described in this prospectus/offer to exchange and the related letter of transmittal.

This prospectus/offer to exchange does not constitute an offer to sell, or a solicitation of an offer to buy, any securities in any jurisdiction to or from any person to whom it is unlawful to make any such offer or solicitation in such jurisdiction. Information contained in this document regarding Invitae has been provided by Invitae and information contained in this document regarding CombiMatrix has been provided by CombiMatrix.

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## **QUESTIONS AND ANSWERS**

The following questions and answers briefly address some commonly asked questions about the Offer. Invitae urges you to read the remainder of this document carefully. Additional important information is also contained in the Merger Agreement which is attached as Annex A, as well as the letter of transmittal related to the Offer and the other annex to, and the documents incorporated by reference into, this document.

### Q: Who is offering to acquire my CombiMatrix Series F warrants?

A: The Offer is made by Invitae Corporation, or Invitae. Invitae s mission is to bring comprehensive genetic information into mainstream medical practice to improve the quality of healthcare for billions of people. Invitae s goal is to aggregate most of the world s hereditary genetic tests into a single service with higher quality, faster turnaround time and lower pricing than many single gene tests today. Invitae was founded on four core principles: patients should own and control their own genetic information; healthcare professionals are fundamental in ordering and interpreting genetic information; driving down the price of genetic information will increase its clinical and personal utility; and genetic information is more valuable when shared. Invitae utilizes an integrated portfolio of laboratory processes, software tools and informatics capabilities to process DNA-containing samples, analyze information about patient-specific genetic variation and generate test reports for clinicians and their patients. Invitae currently has more than 20,000 genes in production and provides a variety of diagnostic tests that can be used in multiple indications. Invitae s tests include multiple genes associated with hereditary cancer, neurological disorders, cardiovascular disorders, pediatric disorders, metabolic disorders and other hereditary conditions, as well as recently acquired capabilities in preimplantation and carrier screening for inherited disorders. Invitae now provides comprehensive genetic information for every stage of life, from preconception through adult diagnostics.

# Q: What are the classes and amounts of CombiMatrix warrants that Invitae is offering to acquire in the Offer?

**A:** Invitae is seeking to acquire all issued and outstanding Series F warrants to purchase shares of common stock of CombiMatrix Corporation, or CombiMatrix. As of September 26, 2017, there were CombiMatrix Series F warrants to purchase 2,066,976 shares of CombiMatrix common stock outstanding and held by public warrant holders.

## Q: What will I receive for my CombiMatrix Series F warrants?

A: Invitae is offering to exchange for each outstanding CombiMatrix Series F warrant to acquire one share of CombiMatrix common stock validly tendered pursuant to the Offer and not properly withdrawn, 0.3056 of a share of Invitae common stock, or the Warrant Exchange Ratio, subject to the procedures described in this document and the related letter of transmittal, and with cash issued in lieu of fractional shares of Invitae common stock (which constitutes the Offer ). The Warrant Exchange Ratio was calculated as the quotient (rounded to the nearest ten-thousandth) obtained by dividing \$2.90 by the average closing price of for shares of Invitae common

stock on the NYSE for the immediately preceding period of 30 trading days prior to the date of the Merger Agreement, or \$9.491.

Instead of receiving any fractional shares of Invitae common stock to which CombiMatrix Series F warrant holders otherwise would be entitled, tendering CombiMatrix Series F warrant holders will receive a cash payment in lieu of such fractional share equal to the dollar amount (rounded to the nearest whole cent), without interest, determined by multiplying such fraction by \$9.491. See the section entitled *The Offer Cash Instead of Fractional Shares of Invitae Common Stock* for a description of the treatment of fractional shares.

CombiMatrix Series F warrant holders should consider the terms of the CombiMatrix Series F warrants and should obtain current market quotations for shares of Invitae common stock and

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CombiMatrix Series F warrants before deciding whether to tender pursuant to the Offer. Please also see the section of this document entitled *Risk Factors*.

## Q: Will I have to pay any fee or commission to exchange CombiMatrix Series F warrants?

**A:** If you are the registered holder of CombiMatrix Series F warrants and you tender your CombiMatrix Series F warrants in the Offer, you will not have to pay any brokerage fees, commissions or similar expenses. If you hold your CombiMatrix Series F warrants in street name through a broker, dealer, commercial bank, trust company or other nominee and your broker or other nominee tenders your CombiMatrix Series F warrants on your behalf, your broker or such other nominee may charge a fee for doing so. You should consult your broker, dealer, commercial bank, trust company or other nominee to determine whether any charges will apply.

## Q: Why is Invitae offering to acquire my CombiMatrix Series F warrants?

A: Pursuant to the Agreement and Plan of Merger and Reorganization, dated as of July 31, 2017, by and among Invitae, Coronado Merger Sub, Inc., or Merger Sub, and CombiMatrix, which is referred to as the Merger Agreement. The successful completion of the Offer, including the satisfaction of the condition to the Offer that at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement shall have been validly tendered and not withdrawn prior to the expiration of the Offer, is a precondition to Invitae s obligation to consummate the Merger. Promptly after completion of the Offer, Invitae intends to consummate a merger of Merger Sub with and into CombiMatrix, with CombiMatrix surviving the Merger (this merger is referred to in this document as the Merger and CombiMatrix after the Merger is sometimes referred to as the surviving corporation ). After the Merger, the surviving corporation will be a wholly owned subsidiary of Invitae and the former CombiMatrix Series F warrant holders will no longer have any direct ownership interest in the surviving corporation.

### Q: What does the CombiMatrix board of directors recommend?

A: The CombiMatrix board of directors has unanimously recommended that the CombiMatrix stockholders vote to approve the Merger. The successful completion of the Offer, including the satisfaction of the condition to the Offer that at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement shall have been validly tendered and not withdrawn prior to the expiration of the Offer, is a precondition to Invitae s obligation to consummate the Merger.

However, neither Invitae, the CombiMatrix board of directors, the information agent, nor the exchange agent for the Offer is making any recommendation to you as to whether you should tender or refrain from tendering your CombiMatrix Series F warrants pursuant to the Offer. You must make your own decision as to whether to tender your CombiMatrix Series F warrants and, if so, how many CombiMatrix Series F warrants to tender. In doing so, you should read carefully the information in this prospectus/offer to exchange and the related letter of transmittal.

- Q: Is Invitae s financial condition relevant to my decision to tender CombiMatrix Series F warrants in the Offer?
- **A:** Yes. Invitae s financial condition is relevant to your decision to tender your CombiMatrix Series F warrants because the consideration you will receive if your CombiMatrix Series F warrants are exchanged in the Offer will consist of shares of Invitae common stock. You should therefore consider Invitae s financial condition as you could become a stockholder of Invitae through the Offer. You also should consider the likely effect that Invitae s acquisition of CombiMatrix could have on Invitae s financial condition. This prospectus/offer to exchange contains financial information regarding Invitae and CombiMatrix, as well as pro forma financial information for the proposed combination of Invitae and CombiMatrix, all of which you are encouraged to review.

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## Q: When does the Offer expire? Can the Offer be extended and, if so, under what circumstances?

A: The Offer is scheduled to expire at 12:00 midnight, New York City time, on November 13, 2017, which is referred to as the Initial Expiration Date, unless further extended by Invitae. Any extension, delay, termination, waiver or amendment of the Offer will be followed as promptly as practicable by public announcement thereof to be made no later than 9:00 a.m., New York City time, on the next business day after the previously scheduled Expiration Date. During any such extension, all CombiMatrix Series F warrants previously tendered and not properly withdrawn will remain subject to the Offer, subject to the rights of a tendering holder to withdraw such holder s CombiMatrix Series F warrants. Expiration Date means the Initial Expiration Date, unless and until Invitae has extended the period during which the Offer is open, in which event the term Expiration Date means the latest time and date at which the Offer, as so extended by Invitae, will expire.

Subject to the provisions of the Merger Agreement and the applicable rules and regulations of the SEC, Invitae may from time to time extend the Offer for one or more periods, including if, at the scheduled Expiration Date, any of the conditions of the Offer shall not have been satisfied or waived, until such time as such conditions are satisfied or waived. Invitae shall extend the Offer for any period required by any rule, regulation, interpretation or position of the SEC or the staff of the SEC applicable to the Offer.

Any decision to extend the Offer will be made public by an announcement regarding such extension as described under the section entitled *The Offer Extension, Termination and Amendment*.

## Q: How do I tender my CombiMatrix Series F warrants?

**A:** To tender CombiMatrix Series F warrants into the Offer, if you are a registered holder of Series F warrants you must deliver the certificates representing your CombiMatrix Series F warrants, together with a completed letter of transmittal and any other documents required by the letter of transmittal, to American Stock Transfer & Trust Company, LLC, the exchange agent for the Offer, not later than the time the Offer expires. The letter of transmittal (and the instructions thereto) is enclosed with this document.

If you hold Series F warrants in street name through a broker, dealer, commercial bank, trust company or other nominee, you must give such broker or other nominee instructions to tender your Series F warrants in the Offer within the time period provided by your broker or other nominee. Your broker, dealer, commercial bank, trust company or other nominee may establish a deadline before the expiration of the Offer by which you must provide it with your instructions. Please contact your broker or other nominee for their specific requirements.

For a complete discussion of the procedures for tendering your CombiMatrix Series F warrants, please see the section of this document entitled *The Offer Procedure for Tendering*.

#### Q: Until what time can I withdraw tendered CombiMatrix Series F warrants?

**A:** If you are a registered holder of Series F warrants, you may withdraw previously tendered CombiMatrix Series F warrants at any time prior to the expiration of the Offer. If you hold Series F warrants in street name through a broker, dealer, commercial bank, trust company or other nominee, please contact your broker or other nominee

for their specific requirements. Your broker, dealer, commercial bank, trust company or other nominee may establish a deadline prior to the expiration of the Offer by which you must provide it with your instructions to withdraw. For a complete discussion of the procedures for withdrawing your CombiMatrix Series F warrants, please see the section of this document entitled *The Offer Withdrawal Rights*.

## Q: How do I withdraw previously tendered CombiMatrix Series F warrants?

**A:** To withdraw previously tendered CombiMatrix Series F warrants, if you are a registered holder of Series F warrants you must deliver a written or facsimile notice of withdrawal with the required information to the

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exchange agent while you still have the right to withdraw. If you tendered CombiMatrix Series F warrants by giving instructions to a broker, dealer, commercial bank, trust company or other nominee, you must instruct the broker or other nominee to arrange for the withdrawal of your CombiMatrix Series F warrants. Please contact your broker, dealer, commercial bank, trust company or other nominee for their specific requirements. For a complete discussion on the procedures for withdrawing your CombiMatrix Series F warrants, including the applicable deadlines for effecting withdrawals, please see the section of this document entitled *The Offer Withdrawal Rights*.

- Q: When and how will I receive the Offer consideration in exchange for my tendered CombiMatrix Series F warrants?
- A: Invitae will exchange all validly tendered and not properly withdrawn CombiMatrix Series F warrants promptly after the Expiration Date, subject to the terms of the Offer and the satisfaction or waiver of the conditions to the Offer, as set forth in the section of this document entitled *The Offer Conditions of the Offer*. Invitae will deliver the consideration for your validly tendered and not properly withdrawn CombiMatrix Series F warrants by depositing the stock and cash consideration therefor with the exchange agent, which will act as your agent for the purpose of receiving the Offer consideration from Invitae and transmitting such consideration to you if you are a registered Series F warrant holder. In all cases, an exchange of tendered CombiMatrix Series F warrants will be made only after timely receipt by the exchange agent of certificates for such CombiMatrix Series F warrants and a properly completed and duly executed letter of transmittal and any other required documents for such CombiMatrix Series F warrants. If you hold CombiMatrix Series F warrants in street name through a broker, dealer, commercial bank, trust company or other nominee, you should contact your broker or other nominee for information on receiving the Offer consideration.
- Q: Will the CombiMatrix Series F warrants that are not tendered in the Offer continue to be eligible for trading on the NASDAQ Capital Market?
- A: In connection with the completion of the Offer and the Merger, CombiMatrix and Invitae intend to make the appropriate filings to delist any remaining unexchanged CombiMatrix Series F warrants from trading on the NASDAQ Capital Market, presuming any such unexchanged warrants will qualify for delisting. The CombiMatrix Series F warrants that are not validly tendered in the Offer, if any, and that remain outstanding and unexercised at the time of the Merger will be assumed by Invitae and converted into warrants to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such warrants being adjusted appropriately to reflect the Merger Exchange Ratio. Invitae does not intend to list such warrants for trading on any national stock exchange. Please see the sections entitled *Risk Factors The liquidity of the CombiMatrix Series F warrants that are not exchanged will be reduced* and *The Offer Effect of the Offer on the Market for CombiMatrix Series F warrants; NASDAQ Capital Market Listing; Registration Under the Exchange Act; Margin Regulations.*
- Q: How does this Offer impact the closing of the Merger?

A:

One of the closing conditions for Invitae in the Merger Agreement is that at least 90% of the Series F warrants outstanding immediately prior to the date of the Merger Agreement must have been validly tendered pursuant to this Offer prior the closing of the Merger; therefore, if sufficient holders of outstanding CombiMatrix Series F warrants do not participate in this Offer, Invitae will have the right not to consummate the Merger with CombiMatrix.

## Q: How does this Offer impact the consideration payable to CombiMatrix stockholders in the Merger?

**A:** The per share value of the consideration payable in the Merger to the holders of CombiMatrix common stock will be reduced to the extent that more shares of CombiMatrix common stock or Series F warrants are outstanding as of the closing of the Merger. Therefore, to the extent that CombiMatrix Series F warrants are

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not tendered in the Offer, the per share value of the Merger consideration will be reduced. For example, the estimated Merger Exchange Ratio of 0.91 was calculated assuming that 100% of the CombiMatrix Series F warrants are exchanged in the Offer. Based on the average closing price of \$9.491 per share of Invitae common stock on the NYSE for the 30 trading days prior to July 31, 2017, the date on which the Merger Agreement was executed, and estimated CombiMatrix net cash of negative \$0.8 million (the calculation of which includes a reduction for CombiMatrix transaction bonuses payable), the estimated Merger Exchange Ratio represented \$8.60 in value for each share of CombiMatrix common stock. If, instead of being exchanged, 100% of the CombiMatrix Series F warrants were exercised prior to the Merger, the Merger Exchange Ratio would be reduced to 0.84, representing \$8.00 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$2.3 million (which excludes warrant exercise proceeds). Alternatively, if none of the CombiMatrix Series F warrants are exchanged in the Offer or exercised prior to the Merger and all such warrants are assumed by Invitae, although Invitae s obligation to proceed with the Merger is subject to a participation level in the Offer of at least 90% as described in this prospectus/offer to exchange, the Merger Exchange Ratio would be reduced to 0.87, representing \$8.25 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$0.7 million. These dollar values may fluctuate higher or lower prior to the closing of the Merger depending on fluctuations in the price of Invitae common stock on the NYSE. See the sections entitled The Merger Agreement Merger Consideration and Exchange Ratio and The Merger Agreement Determination of CombiMatrix s Net Cash; Merger Consideration Sensitivity Analysis for additional factors that may affect the Merger Exchange Ratio.

#### Q: Where can I find more information about Invitae and CombiMatrix?

- **A:** You can find more information about Invitae and CombiMatrix from various sources described in the section of this document entitled *Where You Can Find More Information*.
- Q: Who can help answer my questions?
- **A:** If you have any questions about the Offer or if you need additional copies of this document, you should contact Advantage Proxy, Inc., Invitae s information agent for this Offer:

### ADVANTAGE PROXY, INC.

PO Box 13581

Des Moines, WA 98198

Telephone: (877) 870-8565 (toll free); (206) 870-8565 (collect)

Email: ksmith@advantageproxy.com

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## PROSPECTUS SUMMARY

The following is a summary which highlights selected information contained in this document. It may not contain all of the information that is important to you. You are urged to carefully read this entire document and the other documents which are annexes to this prospectus/offer to exchange or incorporated herein by reference in order to fully understand the Offer, including the sections entitled Where You Can Find More Information on page 106 and Risk Factors on page 32.

## The Offer (See page 53)

Under the terms of the Offer, each CombiMatrix Series F warrant holder will receive, for each outstanding CombiMatrix Series F warrant to acquire one share of CombiMatrix common stock validly tendered and not withdrawn in the Offer, 0.3056 of a share of Invitae common stock, or the Warrant Exchange Ratio, subject to the procedures described in this document and the related letter of transmittal, and with cash issued in lieu of fractional shares of Invitae common stock (which constitutes the Offer ). The Warrant Exchange Ratio was calculated as the quotient (rounded to the nearest ten-thousandth) obtained by dividing \$2.90 by the average closing price of for shares of Invitae common stock on the NYSE for the immediately preceding period of 30 trading days prior to the date of the Merger Agreement, or \$9.491, which is referred to in the Merger Agreement as the Invitae Trailing Average Share Value.

Instead of receiving any fractional shares of Invitae common stock to which CombiMatrix Series F warrant holders otherwise would be entitled, tendering CombiMatrix Series F warrant holders will receive a cash payment in lieu of such fractional share equal to the dollar amount (rounded to the nearest whole cent), without interest, determined by multiplying such fraction by \$9.491. See the section entitled *The Offer Cash Instead of Fractional Shares of Invitae Common Stock* for a description of the treatment of fractional shares.

#### **Invitae** s Reasons for the Merger and the Offer (See page 51)

Invitae s board of directors concluded that the Merger Agreement, the Merger, the stock issuance in connection therewith and the other transaction documents and the transactions contemplated thereby or undertaken in connection therewith, including the Offer, are advisable and in the best interests of Invitae and its stockholders because, among other factors, the transaction provides Invitae with a unique opportunity to expand its business by acquiring a clinical molecular diagnostic laboratory whose focus is on pre-implantation genetic screening, prenatal diagnosis, miscarriage analysis and pediatric developmental disorders.

## Purpose of the Offer; The Merger (See page 63)

Pursuant to the Merger Agreement, the successful completion of the Offer, including the satisfaction of the condition to the Offer that at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement shall have been validly tendered and not withdrawn prior to the expiration of the Offer, is a precondition to Invitae s obligation to consummate the Merger. Promptly after completion of the Offer, Invitae intends to consummate a merger of Merger Sub with and into CombiMatrix, with CombiMatrix surviving the Merger as a wholly owned subsidiary of Invite. After the Merger, the former CombiMatrix Series F warrant holders will no longer have any direct ownership interest in the surviving corporation. See the sections entitled *Background of the Merger and the Offer* and *The Merger Agreement* for a more detailed description of the events leading up to the proposed Merger and Offer and the terms and conditions of the Merger Agreement.

In the Merger, the CombiMatrix Series F warrants held by warrant holders that do not participate in the Offer will be assumed by Invitae in accordance with their terms and converted into warrants to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such

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warrants being adjusted appropriately to reflect the merger exchange ratio, or the Merger Exchange Ratio, as described below.

Under the terms of the Offer, each CombiMatrix Series F warrant holder will receive, for each outstanding CombiMatrix Series F warrant to acquire one share of CombiMatrix common stock validly tendered and not withdrawn in the Offer a fraction of a share of Invitae common stock equal to Warrant Exchange Ratio, subject to the procedures described in this document and the related letter of transmittal.

## Material U.S. Federal Income Tax Consequences of the Offer (See page 59)

Invitae and CombiMatrix intend the Offer, together with the Merger, to qualify as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended, or the Code. In general, and subject to the qualifications and limitations set forth in the section entitled *The Offer Material U.S. Federal Income Tax Consequences of the Offer*, if the Offer, together with the Merger, qualifies as a reorganization within the meaning of Section 368(a) of the Code, the material U.S. federal income tax consequences to U.S. Holders (as defined in the section entitled *The Offer Material U.S. Federal Income Tax Consequences of the Offer*) of CombiMatrix Series F warrants will be as follows:

a CombiMatrix Series F warrant holder will not recognize gain or loss upon the exchange of CombiMatrix Series F warrants for Invitae common stock pursuant to the Offer, except with respect to cash received in lieu of a fractional share of Invitae common stock as described below;

a CombiMatrix Series F warrant holder who receives cash in lieu of a fractional share of Invitae common stock in the Offer will recognize capital gain or loss in an amount equal to the difference between the amount of cash received in lieu of a fractional share and the warrant holder s tax basis allocable to such fractional share;

a CombiMatrix Series F warrant holder s aggregate tax basis for the shares of Invitae common stock received in the Offer (including any fractional share interest for which cash is received) will equal the warrant holder s aggregate tax basis in the CombiMatrix Series F warrants surrendered in the Offer; and

the holding period of the shares of Invitae common stock received by a CombiMatrix Series F warrant holder in the Offer will include the holding period of the shares of CombiMatrix Series F warrants surrendered in exchange therefor.

Tax matters are very complicated, and the tax consequences of the Offer to a particular CombiMatrix Series F warrant holder will depend on such warrant holder s circumstances. Accordingly, you are strongly urged to consult your tax advisor for a full understanding of the tax consequences of the Offer to you, including the applicability and effect of federal, state, local and non-U.S. income and other tax laws.

## Conditions That Must Be Satisfied or Waived for the Offer to Occur (See page 65)

Invitae currently expects to complete the Offer in the fourth quarter of 2017. However, as more fully described in this document, the obligations of Invitae to complete the Offer are conditioned upon a number of items being satisfied or,

where legally permissible, waived, including the following:

CombiMatrix Series F warrant holders must have validly tendered and not withdrawn prior to the expiration of the Offer a number of CombiMatrix Series F warrants that is at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement; provided that Invitae has offered shares of Invitae common stock with a value of at least \$2.90 per CombiMatrix Series F warrant (based on the Invitae Trailing Average Share Value). This 90% requirement is referred to as the minimum tender;

the registration statement on Form S-4, of which this document is a part, must have been declared effective by the SEC in accordance with the Securities Act of 1933, or the Securities Act, and must not be subject to any stop order or proceeding, or any proceeding threatened by the SEC, seeking a stop order;

the holders of a majority of the outstanding CombiMatrix common stock must have approved the proposal to adopt the Merger Agreement;

there must not have been issued any temporary restraining order, preliminary or permanent injunction or other order preventing the consummation of the Offer by any court of competent jurisdiction or other governmental entity of competent jurisdiction that remains in effect, and there must be no law, statute, rule, regulation, ruling or decree in effect which has the effect of making the consummation of the Offer illegal;

any waiting period applicable to the consummation of the Merger and the Offer under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, or HSR Act, must have expired or been terminated, and there must not be in effect any voluntary agreement by any party to the Merger Agreement and the U.S. Federal Trade Commission, the U.S. Department of Justice or any foreign governmental body, pursuant to which such party has agreed not to consummate the Merger or the Offer for any period of time;

there must not be any legal proceeding pending or threatened by an official of a government or governmental entity in which such government or governmental entity indicates that it intends to conduct any legal proceeding or take any other action (i) challenging or seeking to restrain or prohibit the consummation of the Offer or any of the other transactions contemplated by the Merger Agreement, (ii) relating to the Offer or any of the other transactions contemplated by the Merger Agreement and seeking to obtain from Invitae, Merger Sub or CombiMatrix any material damages or other relief, (iii) seeking to materially prohibit or limit the ability to vote, transfer, receive dividends or otherwise exercise ownership rights with respect to any Invitae common stock to be issued in the Offer, (iv) that would materially affect the right or ability of Invitae or CombiMatrix to own the assets or operate their businesses, or (v) seeking to compel Invitae or CombiMatrix to dispose of or hold separate any material assets as a result of the Offer or any of the other transactions contemplated by the Merger Agreement;

the shares of Invitae common stock to be issued in Offer must be approved for listing on the NYSE as of the effective time of the Merger;

all conditions to closing under the Merger Agreement shall have been satisfied or waived, other than those conditions which by their nature are only capable of being satisfied as of closing and other than the consummation of the Offer; and

the Merger Agreement shall not have been terminated in accordance with its terms. Subject to the provisions of the Merger Agreement, the conditions to the Offer are for the sole benefit of Invitae and may be asserted by Invitae regardless of the circumstances or may be waived by Invitae, by express and specific action to that effect, in whole or in part at any time and from time to time on or prior to the Expiration Date, except

that the conditions relating to receipt of any approvals from any governmental entity may be asserted at any time prior to Invitae s acceptance of CombiMatrix Series F warrants for exchange pursuant to the Offer.

## **Expiration of the Offer (See page 54)**

The Offer is scheduled to expire at 12:00 midnight, New York City time, on November 13, 2017, which is the Initial Expiration Date, unless further extended by Invitae. Any extension, delay, termination, waiver or amendment of the Offer will be followed as promptly as practicable by public announcement thereof to be made

no later than 9:00 a.m., New York City time, on the next business day after the previously scheduled Expiration Date. Expiration Date means the Initial Expiration Date, unless and until Invitae has extended the period during which the Offer is open, in which event the term Expiration Date means the latest time and date at which the Offer, as so extended by Invitae, will expire.

## **Extension, Termination and Amendment (See page 54)**

Subject to the provisions of the Merger Agreement and the applicable rules and regulations of the SEC, Invitae may from time to time extend the Offer for one or more periods, including if, at the scheduled Expiration Date, any of the conditions of the Offer shall not have been satisfied or waived until such time as such conditions are satisfied or waived. Invitae shall extend the Offer for any period required by any rule, regulation, interpretation or position of the SEC or the staff of the SEC applicable to the Offer.

Invitae will effect any extension, termination, amendment or delay by giving oral or written notice to the exchange agent and by making a public announcement as promptly as practicable thereafter as described under the section entitled *The Offer Extension, Termination and Amendment*. In the case of an extension, any such announcement will be issued no later than 9:00 a.m., New York City time, on the next business day following the previously scheduled Expiration Date. Subject to applicable law (including Rules 14d-4(c) and 14d-6(d) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, which require that any material change in the information published, sent or given to CombiMatrix Series F warrant holders in connection with the Offer be promptly disseminated to warrant holders in a manner reasonably designed to inform them of such change) and without limiting the manner in which Invitae may choose to make any public announcement, Invitae assumes no obligation to publish, advertise or otherwise communicate any such public announcement of this type other than by issuing a press release over the news wire. During any extension, CombiMatrix Series F warrants previously tendered and not properly withdrawn will remain subject to the Offer, subject to the right of each CombiMatrix Series F warrants holder to withdraw previously tendered CombiMatrix Series F warrants.

Subject to applicable SEC rules and regulations, Invitae also reserves the right at any time or from time to time on or prior to the Expiration Date to waive any condition identified as subject to waiver in the section entitled *The Offer Conditions of the Offer* by giving oral or written notice of such waiver to the exchange agent.

No subsequent offering period will be available following the expiration of the Offer.

## Withdrawal Rights (See page 56)

Tendered CombiMatrix Series F warrants may be withdrawn at any time prior to the Expiration Date by registered holders of Series F warrants. If Series F warrants are held in street name through a broker, dealer, commercial bank, trust company or other nominee, the warrant holder should contact the broker or other nominee for their specific requirements as they may establish a deadline before the expiration of the Offer by which withdrawal instructions must be provided. Additionally, if Invitae has not agreed to accept the CombiMatrix Series F warrants for exchange on or prior to November 13, 2017, CombiMatrix Series F warrant holders may thereafter withdraw their CombiMatrix Series F warrants from tender at any time after such date until Invitae accepts the CombiMatrix Series F warrants for exchange. Once Invitae accepts CombiMatrix Series F warrants for exchange pursuant to the Offer, all tenders not previously withdrawn become irrevocable.

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## **Procedure for Tendering (See page 56)**

To validly tender CombiMatrix Series F warrants pursuant to the Offer, registered holders of CombiMatrix Series F warrants must:

deliver a properly completed and duly executed letter of transmittal, along with any required signature guarantees and any other required documents, and certificates for CombiMatrix Series F warrants to American Stock Transfer & Trust Company, LLC, the exchange agent for the Offer, at its address set forth on the back cover of this document, all of which must be received by the exchange agent prior to the Expiration Date; or

comply with the guaranteed delivery procedures set forth in the section entitled *The Offer Guaranteed Delivery*.

CombiMatrix Series F warrant holders who hold such warrants in street name through a broker, dealer, commercial bank, trust company or other nominee, and who desire to tender their CombiMatrix Series F warrants pursuant to the Offer, should instruct their broker or other nominee to tender their Series F warrants in the Offer prior to the Expiration Date and within the time period provided by the broker or other nominee. The broker, dealer, commercial bank, trust company or other nominee may establish a deadline before the expiration of the Offer by which you must provide it with instructions to tender. Please contact your broker or other nominee for their specific requirements.

# Exchange of CombiMatrix Series F warrants; Delivery of Shares of Invitae Common Stock and Cash Instead of Fractional Shares (See page 55)

Upon the terms and subject to the conditions of the Offer (including, if the Offer is extended or amended, the terms and conditions of any extension or amendment), promptly following the Expiration Date, Invitae will accept for exchange, and will exchange, all CombiMatrix Series F warrants validly tendered and not withdrawn prior to the Expiration Date. Invitae will deliver the consideration for your validly tendered and not properly withdrawn CombiMatrix Series F warrants by depositing the stock and any cash consideration therefor with the exchange agent, which will act as your agent for the purpose of receiving the Offer consideration from Invitae and transmitting such consideration to you if you are a registered Series F warrant holder.

## Comparative Market Price Data and NASDAQ Capital Market Listing (See pages 27 and 64)

Shares of Invitae common stock are listed on the NYSE under the symbol NVTA. The CombiMatrix Series F warrants are currently listed on the NASDAQ Capital Market under the symbol CBMXW. However, in connection with the completion of the Offer and the Merger, CombiMatrix and Invitae intend to make the appropriate filings to delist any remaining unexchanged CombiMatrix Series F warrants from trading on the NASDAQ Capital Market, presuming any such unexchanged warrants will qualify for delisting. The CombiMatrix Series F warrants that are not validly tendered in the Offer, if any, and that remain outstanding and unexercised at the time of the Merger will be assumed by Invitae in accordance with their terms and converted into a warrant to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such warrants being adjusted appropriately to reflect the Merger Exchange Ratio. It is currently anticipated that, at the closing of the Merger, the Merger Exchange Ratio would be between approximately 0.91 and 0.84 shares of Invitae common stock. The Merger Exchange Ratio is determined pursuant to a formula in the Merger Agreement and described in this prospectus/offer to exchange, and the estimate of the Merger Exchange Ratio is subject to adjustment. For example, the estimated Merger

Exchange Ratio of 0.91 was calculated assuming that 100% of the CombiMatrix Series F warrants are exchanged in the Offer. Based on the average closing price of \$9.491 per share of Invitae common stock on the NYSE for the 30 trading days prior to July 31, 2017, the date on which the Merger Agreement was executed, and estimated CombiMatrix net cash of negative

\$0.8 million (the calculation of which includes a reduction for CombiMatrix transaction bonuses payable), the estimated Merger Exchange Ratio represented \$8.60 in value for each share of CombiMatrix common stock. If, instead of being exchanged, 100% of the CombiMatrix Series F warrants were exercised prior to the Merger, the Merger Exchange Ratio would be reduced to 0.84, representing \$8.00 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$2.3 million (which excludes warrant exercise proceeds). Alternatively, if none of the CombiMatrix Series F warrants are exchanged in the Offer or exercised prior to the Merger and all such warrants are assumed by Invitae, although Invitae s obligation to proceed with the Merger is subject to a participation level in the Offer of at least 90% as described in this prospectus/offer to exchange, the Merger Exchange Ratio would be reduced to 0.87, representing \$8.25 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$0.7 million. These dollar values may fluctuate higher or lower prior to the closing of the Merger depending on fluctuations in the price of Invitae common stock on the NYSE. See the sections entitled *The Merger Agreement Merger Consideration and Exchange Ratio* and *The Merger Agreement Determination of CombiMatrix s Net Cash; Merger Consideration Sensitivity Analysis* for additional factors that may affect the Merger Exchange Ratio. Invitae does not intend to list such warrants for trading on any national stock exchange.

On July 31, 2017, the date of the public announcement of Invitae s proposal to acquire CombiMatrix, the closing sales price of Invitae common stock on the NYSE was \$9.28 and the closing sales price of CombiMatrix Series F warrants on the NASDAQ Capital Market was \$1.25. On September 29, 2017 the last practicable trading day before the date of this document, the closing sales price of Invitae common stock on the NYSE was \$9.37 and the closing sales price of CombiMatrix Series F warrants on the NASDAQ Capital Market was \$2.50. CombiMatrix Series F warrant holders should obtain current market quotations for Invitae common stock and CombiMatrix Series F warrants before deciding whether to tender CombiMatrix Series F warrants in the Offer.

See the sections entitled Comparative Market Prices and Dividends and The Offer Effect of the Offer on the Market for CombiMatrix Series F warrants; NASDAQ Capital Market Listing; Registration Under the Exchange Act; Margin Regulations.

## Regulatory Approvals (See page 89)

Invitae is not aware of any governmental license or regulatory permit that appears to be material to CombiMatrix s business that might be adversely affected by Invitae s acquisition of CombiMatrix Series F warrants pursuant to the Offer or, except as described below, of any approval or other action by any government or governmental administrative or regulatory authority or agency, domestic or foreign, that would be required for Invitae s acquisition or ownership of CombiMatrix Series F warrants pursuant to the Offer. Pursuant to the Merger Agreement, Invitae and CombiMatrix have agreed to cooperate and use commercially reasonable efforts to obtain all regulatory approvals required to complete the transactions contemplated by the Merger Agreement, including the Offer. Invitae must comply with applicable federal and state securities laws and the rules and regulations of the NYSE in connection with the issuance of shares of Invitae common stock upon completion of the Offer and the filing of this prospectus/offer to exchange and other documents with the SEC.

The Merger Agreement also provides that CombiMatrix and Invitae will file any notification and report forms required to be filed under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, and respond as promptly as practicable to any inquiries or requests received from the Federal Trade Commission or the Department of Justice for information or documentation or any inquiries or requests received from any other governmental body in connection with antitrust or competition matters.

## **Interests of Certain CombiMatrix Directors and Officers (See page 67)**

In considering whether to tender your CombiMatrix Series F warrants, you should recognize that some of the members of management and of the CombiMatrix board of directors may have interests in the Merger and the Offer that differ from, or are in addition to, their interests as CombiMatrix stockholders. These interests include:

the rights of certain of CombiMatrix s executive officers to receive payments or other benefits, including the conversion of certain stock options and restricted stock unit awards, acceleration of the vesting of certain equity awards, and severance payments due upon termination of employment in connection with the Merger;

the rights of certain of CombiMatrix s executive officers and directors to receive payments pursuant to the CombiMatrix Transaction Bonus Plan in connection with the Merger;

the consulting agreements entered into between Invitae and Messrs. McDonough and Burell providing for their continued service to CombiMatrix following the closing of the Merger; and

the continued indemnification of CombiMatrix s directors and officers after the completion of the Merger for acts or omissions that occurred in their capacity as directors or officers prior to the closing of the Merger.

These interests are further described in the section entitled *The Offer Interests of Certain CombiMatrix Directors and Officers*.

## Comparison of Rights of Invitae and CombiMatrix Stockholders (See page 97)

Upon the completion of the Merger and the Offer, CombiMatrix Series F warrant holders who tender in the Offer will become holders of Invitae common stock. The rights associated with Invitae common stock are different from the rights associated with CombiMatrix common stock. The differences are described in more detail in the section entitled *Comparison of Rights of Invitae and CombiMatrix Stockholders*.

## The Companies

## Invitae Corporation (See page 38)

Invitae s mission is to bring comprehensive genetic information into mainstream medical practice to improve the quality of healthcare for billions of people. Invitae s goal is to aggregate most of the world s hereditary genetic tests into a single service with higher quality, faster turnaround time and lower pricing than many single gene tests today. Invitae was founded on four core principles: patients should own and control their own genetic information; healthcare professionals are fundamental in ordering and interpreting genetic information; driving down the price of genetic information will increase its clinical and personal utility; and genetic information is more valuable when shared. Invitae utilizes an integrated portfolio of laboratory processes, software tools and informatics capabilities to process DNA-containing samples, analyze information about patient-specific genetic variation and generate test reports for clinicians and their patients. Invitae currently has more than 20,000 genes in production and provides a variety of diagnostic tests that can be used in multiple indications. Invitae s tests include multiple genes associated with hereditary cancer, neurological disorders, cardiovascular disorders, pediatric disorders, metabolic disorders and

other hereditary conditions, as well as recently acquired capabilities in preimplantation and carrier screening for inherited disorders. Invitae now provides comprehensive genetic information for every stage of life, from preconception through adult diagnostics.

Invitae common stock is currently listed on the New York Stock Exchange under the symbol NVTA.

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### CombiMatrix Corporation (See page 38)

CombiMatrix is a family health-focused clinical molecular diagnostic laboratory specializing in pre-implantation genetic screening, prenatal diagnosis, miscarriage analysis, and pediatric developmental disorders. CombiMatrix strives to provide best-in-class clinical laboratory support to healthcare professionals, allowing them to maximize the clinical utility of their patients—test results and to optimize patient care. CombiMatrix—s testing focuses on advanced technologies, including single nucleotide polymorphism, or SNP, chromosomal microarray analysis, next-generation sequencing, fluorescent *in situ* hybridization, or FISH, and high resolution chromosome analysis (also referred to as karyotyping). CombiMatrix—s approach to testing is to offer sophisticated technology along with high quality clinical support to its ordering physicians and their patients. CombiMatrix also owns a one-third minority interest in Leuchemix, Inc., a private drug development company focused on developing a series of compounds to address a number of oncology-related diseases.

CombiMatrix was originally incorporated in October 1995 as a California corporation. In September 2000, CombiMatrix was reincorporated as a Delaware corporation. In August 2007, CombiMatrix became publicly traded on NASDAQ under the symbol CBMX, where it is currently listed and traded. The CombiMatrix Series F warrants are listed on NASDAQ under the symbol CBMXW. Following completion of the Merger, the CombiMatrix common stock and the CombiMatrix Series F warrants will cease trading on NASDAQ and CombiMatrix will file the appropriate forms with the Securities and Exchange Commission to suspend its reporting obligations under the Securities Exchange Act of 1934, as amended, or the Exchange Act.

#### Coronado Merger Sub, Inc. (See page 39)

Coronado Merger Sub, Inc., or Merger Sub, is a wholly owned subsidiary of Invitae and was formed solely for the purpose of carrying out the Merger. In the Merger, Merger Sub will merge with and into CombiMatrix and Merger Sub will cease to exist. Merger Sub has engaged in no business activities to date and it has no material assets or liabilities of any kind, other than those incident to its formation and those incurred in connection with the Merger.

#### **Questions about the Offer**

CombiMatrix Series F warrant holders should contact Advantage Proxy, Inc., Invitae s information agent for the Offer, at the following telephone number and email address with any questions about the Offer, or to request additional copies of this document or other documents:

#### ADVANTAGE PROXY, INC.

PO Box 13581

Des Moines, WA 98198

Telephone: (877) 870-8565 (toll free); (206) 870-8565 (collect)

Email: ksmith@advantageproxy.com

#### SELECTED HISTORICAL FINANCIAL DATA OF INVITAE

Set forth below are highlights from Invitae s consolidated financial data as of and for the periods indicated. The historical consolidated financial data presented below for each of the five fiscal years through the period ended December 31, 2016 are derived from the selected financial data included in Invitae s Annual Report on Form 10-K for the year ended December 31, 2016. The historical consolidated financial data for the six months ended June 30, 2017 are derived from the unaudited condensed consolidated financial statements included in Invitae s Quarterly Report on Form 10-Q for the quarter ended June 30, 2017.

Invitae s unaudited condensed consolidated financial statements have been prepared in accordance with U.S. GAAP on the same basis as its audited annual consolidated financial statements and, in the opinion of management, reflect all adjustments, consisting only of normal, recurring adjustments, necessary for the fair presentation of those unaudited interim condensed consolidated financial statements. Invitae s historical results are not necessarily indicative of the results that may be expected in any future period, and the results for the six months ended June 30, 2017 are not necessarily indicative of results to be expected for the full year ending December 31, 2017 or any other period.

The selected historical consolidated financial data below should be read in conjunction with the section entitled *Risk Factors* and Invitae s audited annual and unaudited condensed consolidated financial statements and related notes that have been incorporated into this document by reference. See the section entitled *Where You Can Find More Information*.

	]	Months Ended une 30,	nded			Year Ended December 31,				
		2017		2016		2015	2014	2013		2012
	(un	audited)		(in th	a)					
<b>Consolidated Statements of</b>										
Operations Data:										
Revenue	\$	24,674	\$	25,048	\$	8,378	\$ 1,604	\$ 148	\$	
Costs and operating expenses:										
Cost of revenue		19,819		27,878		16,523	5,624	667		
Research and development		21,362		44,630		42,806	22,063	16,039		5,557
Selling and marketing		24,092		28,638		22,479	8,669	2,431		
General and administrative		14,813		24,085		16,047	12,600	5,764		3,004
Total costs and operating expenses		80,086		125,231		97,855	48,956	24,901		8,561
Loss from operations		(55,412)		(100,183)		(89,477)	(47,352)	(24,753)		(8,561)
Other income (expense), net		(540)		348		(94)	(79)	(26)		2
Interest expense		(1,389)		(421)		(211)	(61)	(59)		(43)
Net loss before taxes Income tax benefit		(57,341) (1,856)								
Net loss	\$	(55,485)	\$	(100,256)	\$	(89,782)	\$ (47,492)	\$ (24,838)	\$	(8,602)

Net loss attributable to common stockholders	\$	(55,485)	\$	(100,256)	\$	(89,782)	\$ (47,492)	\$ (24,989)	\$	(9,014)
Net loss per share attributable to common stockholders, basic and diluted	\$	(1.30)	\$	(3.02)	\$	(3.18)	\$ (56.14)	\$ (36.13)	\$	(14.18)
Shares used in computing net loss per common share, basic										
and diluted	42	2,808,175	3	3,176,305	2	8,213,324	846,027	691,731	(	535,705

	As of		As of December 31,							
	June 30, 2017 (unaudited	2016	2015 2014 (in thousands		2013	2012				
<b>Consolidated Balance Sheet Data:</b>										
Cash and cash equivalents	\$ 27,673	\$ 66,825	5 \$ 73,238	\$ 107,027	\$ 43,070	\$ 21,801				
Working capital	66,551	87,047	120,433	102,020	41,577	21,043				
Total assets	139,208	3 130,651	156,676	128,778	53,103	25,973				
Capital lease obligations	3,997	7 1,575	3,164	3,535	2,001	1,215				
Debt	38,975	5 12,102	7,040							
Convertible preferred stock				202,305	86,574	36,755				
Accumulated deficit	(330,703	3) (275,218	3) (174,962)	(85,180)	(37,688)	(12,850)				
Total stockholders equity (deficit)	67,164	99,074	138,376	(83,576)	(37,280)	(12,759)				

#### SELECTED HISTORICAL FINANCIAL DATA OF COMBIMATRIX

Set forth below are highlights from CombiMatrix s consolidated financial data as of and for the periods indicated. The historical consolidated financial data presented below for each of the five fiscal years through the period ended December 31, 2016 are derived from the consolidated financial statements included in CombiMatrix s Annual Reports on Form 10-K for the five years ended December 31, 2016 included as *Annex B* to this prospectus/offer to exchange. The historical consolidated financial data for the six months ended June 30, 2017 are derived from the unaudited interim financial statements included in CombiMatrix s Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 included as *Annex C* to this prospectus/offer to exchange.

CombiMatrix s unaudited interim financial statements have been prepared in accordance with U.S. GAAP on the same basis as its audited annual consolidated financial statements and, in the opinion of management, reflect all adjustments, consisting only of normal, recurring adjustments, necessary for the fair presentation of those unaudited interim consolidated financial statements. CombiMatrix s historical results are not necessarily indicative of the results that may be expected in any future period, and the results for the six months ended June 30, 2017 are not necessarily indicative of results to be expected for the full year ending December 31, 2017 or any other period.

The selected historical consolidated financial data below should be read in conjunction with the section entitled Risk Factors and CombiMatrix s audited annual and unaudited interim consolidated financial statements and related notes that are included within Annex B and Annex C attached to this document. See the section entitled Where You Can Find More Information.

	Six Months Ended June 30,			Year E	nded Decen	nber 31,	
	2	2017	2016	2015	2014	2013	2012
	(una	audited)	(in tho	usands, exc	ept share a	nd per shar	e data)
<b>Consolidated Statements of Operations</b>							
Data:							
Revenues:							
Diagnostic services	\$	7,972	\$ 12,696	\$ 9,941	\$ 7,893	\$ 6,204	\$ 4,975
Clinical trial support services							195
Royalties		56	173	147	149	163	180
Total revenues		8,028	12,869	10,088	8,042	6,367	5,350
Operating expenses:							
Cost of services		3,140	5,787	5,444	4,432	3,527	2,702
Research and development		170	493	466	725	1,011	1,400
Sales and marketing		2,038	4,569	4,979	4,349	2,764	2,596
General and administrative		3,519	6,013	5,540	7,176	5,206	5,378
Patent amortization and royalties		50	100	100	114	254	266
Impairment of cost-basis investment				97			
Total operating expenses		8,917	16,962	16,626	16,796	12,762	12,342

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Operating loss	(889)	(4,093)	(6,538)	(8,754)	(6,395)	(6,992)
Other income (expenses):						
Interest income	11	22	16	23	5	1
Interest expense	(10)	(69)	(79)	(84)	(356)	(179)
Warrant derivative gains (charges)				152	2,804	(2,357)
Warrant modification charge				(44)		
Total other income (expense)	1	(47)	(63)	47	2,453	(2,535)
_						
Net loss	\$ (888)	\$ (4,140)	\$ (6,601)	\$ (8,707)	\$ (3,942)	\$ (9,527)

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Ended June 30,	
,	2012
Series A convertible preferred stock	
dividends \$ \$ \$ (247) \$	(123)
Series C convertible preferred stock dividends (27)	
Deemed dividend from issuing Series A convertible preferred stock	(617)
Deemed dividend from issuing Series B convertible preferred stock (417)	
Deemed dividend from issuing Series C convertible preferred stock (1,213)	
Deemed dividend from issuing Series D convertible preferred stock (6,367)	
Deemed dividend from issuing Series F convertible preferred stock	
and warrants (1,877)	
Deemed dividend paid for right to repurchase Series E convertible	
preferred stock (656)  Deemed dividend from issuing and	
modifying Series E convertible preferred stock and warrants  890 (1,058)	
Net loss attributable to common stockholders \$ (888) \$ (5,783) \$ (7,659) \$ (8,707) \$ (12,213) \$ (	10,267)
Basic and diluted net loss per share attributable to common	
stockholders \$ (0.31) \$ (3.27) \$ (9.22) \$ (11.84) \$ (46.49) \$ (	141.44)
Basic and diluted weighted average common shares outstanding 2,838,521 1,768,090 830,835 735,305 262,731	72,588
As of As of December 31,	
June 30, 2017 2016 2015 2014 2013 (unaudited) (in thousands)	2012
Consolidated Balance Sheet Data:	
Cash, cash equivalents and	
short-term investments \$ 3,022 \$ 3,727 \$ 3,901 \$ 5,240 \$ 14,036 \$	2,372
Working capital surplus (deficit) 5,597 6,062 5,417 6,642 13,927	(1,442)

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Total assets	8,119	8,478	7,922	8,632	16,832	5,180
Total liabilities	2,167	1,984	2,066	1,512	2,168	5,905
Convertible preferred stock						394
Accumulated deficit	(103,534)	(102,589)	(96,806)	(89,147)	(80,440)	(68,227)
Total stockholders equity (deficit)	5,952	6,494	5,856	7,120	14,664	(1,119)

#### UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL INFORMATION

The following unaudited pro forma condensed combined balance sheet as of June 30, 2017 and the unaudited pro forma condensed combined statements of operations for the year ended December 31, 2016 and the six months ended June 30, 2017 are based on the separate historical consolidated financial statements of Invitae and CombiMatrix after giving effect to the Merger.

The unaudited pro forma condensed combined balance sheet as of June 30, 2017 combines the balance sheet of Invitae as of June 30, 2017 with the balance sheet of CombiMatrix as of June 30, 2017. The unaudited pro forma condensed combined statement of operations for the year ended December 31, 2016 combines Invitae s results of operations for the year ended December 31, 2016 with CombiMatrix s results of operations for the year ended December 31, 2016. The unaudited pro forma condensed combined statement of operations for the six months ended June 30, 2017 combines Invitae s results of operations for the six months ended June 30, 2017 with CombiMatrix s results of operations for the six months ended June 30, 2017.

The unaudited pro forma condensed combined balance sheet as of June 30, 2017 assumes the Merger and related events had been consummated on June 30, 2017. The unaudited pro forma condensed combined statements of operations for the year ended December 31, 2016 and the six months ended June 30, 2017 give pro forma effect to the Merger and related events as if they had been consummated on January 1, 2016, the beginning of Invitae s 2016 fiscal year. The historical financial information has been adjusted to give effect to pro forma adjustments that are (i) directly attributable to the Merger, (ii) factually supportable, and (iii) with respect to the unaudited pro forma condensed combined statements of operations, expected to have a continuing impact on the combined entity s consolidated results. The unaudited pro forma condensed combined statements of operations do not include the impact of any operating synergies that may result from the Merger.

The Merger will be accounted for as an acquisition by Invitae, and Invitae was determined to be the accounting acquirer. See the section entitled *The Offer Accounting Treatment* for more information. In summary, Invitae has concluded that Invitae is the accounting acquirer based on its evaluation of the facts and circumstances of the acquisition. The purpose of the Merger is for Invitae to acquire the business of CombiMatrix so that Invitae can expand its products and services offerings. Invitae is the larger of the two entities and will be the operating company within the combining companies. Invitae s board members will continue to hold all of the seats on the Invitae board of directors and CombiMatrix stockholders do not have any board appointment rights. Invitae s senior management will be continuing as the senior management of the combined company.

The completion of the Merger is subject to various closing conditions, including, among others, (i) approval by the CombiMatrix stockholders of the proposal to approve and adopt the Merger Agreement, or the Merger Proposal, (ii) completion of the Offer (which may be completed at the same time as the Merger is completed), which requires the participation by holders of at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement, (iii) the accuracy of the representations and warranties of CombiMatrix and Invitae, (iv) the performance by CombiMatrix and Invitae in all material respects of their respective obligations under the Merger Agreement, (v) the effectiveness of the registration statements for the issuance of shares of Invitae common stock in the Merger and Offer, (vi) the repurchase by CombiMatrix of all of its outstanding Series A, Series B, Series C, Series E and PIPE warrants, and (vii) receipt of NYSE listing approval for the shares of Invitae common stock to be issued in the Merger and Offer.

The unaudited pro forma condensed combined financial statements assume that (i) the Merger Proposal is approved by 100% of the CombiMatrix stockholders, (ii) none of the CombiMatrix Series A, Series B, Series C, Series D, Series E, Series F or PIPE warrants are exercised; and (iii) all other Merger-related transactions (e.g., the outstanding

CombiMatrix Series F preferred stock is converted into Invitae common stock; the outstanding

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CombiMatrix Series A, Series B, Series C, Series E and PIPE warrants are repurchased; and the Offer for CombiMatrix Series F warrants is accepted by 100% of such warrant holders) are consummated.

The unaudited pro forma condensed combined financial statements are presented for informational purposes only. The unaudited pro forma condensed combined financial statements are not necessarily indicative of what Invitae s financial position or results of operations actually would have been had Invitae completed the Merger with CombiMatrix as of the dates indicated. In addition, the unaudited pro forma condensed combined financial statements do not purport to project the future financial position or operating results of the combined company. You should read this information together with the following:

the accompanying notes to the unaudited pro forma condensed combined financial statements;

the separate historical unaudited condensed consolidated financial statements of Invitae as of and for the six months ended June 30, 2017 included in Invitae s Quarterly Report on Form 10-Q for the quarter ended June 30, 2017, which are incorporated by reference into this document;

the separate historical audited condensed consolidated financial statements of Invitae as of and for the year ended December 31, 2016 included in Invitae s Annual Report on Form 10-K for the year ended December 31, 2016, which are incorporated by reference into this document;

the separate historical unaudited consolidated financial statements of CombiMatrix as of and for the six months ended June 30, 2017 included in CombiMatrix s Quarterly Report on Form 10-Q for the quarter ended June 30, 2017, which are attached to this document as *Annex C*; and

the separate historical audited consolidated financial statements of CombiMatrix as of and for the year ended December 31, 2016 included in CombiMatrix s Annual Report on Form 10-K for the year ended December 31, 2016, which are attached to this document as *Annex B*.

The unaudited pro forma condensed combined financial information has been compiled in a manner consistent with the accounting policies adopted by Invitae. Invitae believes these accounting policies are similar in most material respects to those of CombiMatrix. Upon completion of the Merger, or as more information becomes available, Invitae will perform a more detailed review of the CombiMatrix accounting policies. As a result of that review, differences could be identified between the accounting policies of the two companies that, when conformed, could have a material impact on the combined financial statements.

# **INVITAE CORPORATION**

# UNAUDITED PRO FORMA CONDENSED COMBINED BALANCE SHEET

# **JUNE 30, 2017**

(in thousands)

	Invitae (istorical)	CombiMatrix (Historical)		Pro Forma Adjustments				Pro Forma ombined
Assets								
Current assets:								
Cash and cash equivalents	\$ 27,673	\$	3,022	\$	(459)	(A)	\$	30,236
Marketable securities	47,699							47,699
Accounts receivable	2,556		4,006					6,562
Prepaid expenses and other current								
assets	8,278		538					8,816
Total current assets	86,206		7,566		(459)			93,313
Property and equipment, net	27,664		523					28,187
Restricted cash	4,997							4,997
Intangible assets, net	6,467				19,154	(B)		25,621
Goodwill	13,477				16,493	(A)(C)		29,970
Other assets	397		30					427
Total assets	\$ 139,208	\$	8,119	\$	35,188		\$	182,515
Liabilities and stockholders equity								
Current liabilities:								
Accounts payable	\$ 5,123	\$	716	\$			\$	5,839
Accrued liabilities	12,715		1,204		4,313	(E)(F)		18,232
Capital lease obligation, current								
portion	1,817							1,817
Debt, current portion			49					49
Total current liabilities	19,655		1,969		4,313			25,937
Capital lease obligation, net of								
current portion	2,180		72					2,252
Debt, net of current portion	38,975							38,975
Other long-term liabilities	11,234		126		5,850	(G)		17,210
Total liabilities	72,044		2,167		10,163			84,374

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Stockholders equity:					
Preferred stock					
Common stock	4	15	(12)	(H)(I)	7
Accumulated other comprehensive					
loss	(38)				(38)
Additional paid-in capital	397,901	109,471	(77,409)	(H)(I)	429,963
Accumulated deficit	(330,703)	(103,534)	102,446	(D)(H)(I)	(331,791)
Total stockholders equity	67,164	5,952	25,025		98,141
Total liabilities and stockholder s					
equity	\$ 139,208	\$ 8,119	\$ 35,188		\$ 182,515

### **INVITAE CORPORATION**

# UNAUDITED PRO FORMA CONDENSED COMBINED STATEMENT OF OPERATIONS

# FOR THE YEAR ENDED DECEMBER 31, 2016

(in thousands except per share data)

		Invitae Iistorical)	CombiMatrix (Historical)		Pro Forma Adjustments		Note No.		o Forma
Revenue:					·				
Test revenue	\$	25,048	\$	12,696	\$			\$	37,744
Other revenue				173					173
Total revenue		25,048		12,869					37,917
Costs and operating expenses:									
Costs of revenue		27,878		5,787		759	(J)		34,424
Research and development		44,630		493		4	(J)		45,127
Selling and marketing		28,638		4,569		1,708	(J)		34,915
General and administrative		24,085		6,113		37	(J)		30,235
Total costs and operating expenses		125,231		16,962		2,508			144,701
Loss from operations		(100,183)		(4,093)		(2,508)			(106,784)
Other income (expense), net		348		22					370
Interest expense		(421)		(69)					(490)
Net loss before taxes Income tax benefit		(100,256)		(4,140)		(2,508)			(106,904)
Net loss	\$	(100,256)	\$	(4,140)	\$	(2,508)		\$	(106,904)
Net loss per share, basic and diluted	\$	(3.02)						\$	(2.92)
Shares used in computing net loss per share, basis and diluted	3	33,176,305			,	3,476,733	(I)	3	6,653,038

### INVITAE CORPORATION

# UNAUDITED PRO FORMA CONDENSED COMBINED STATEMENT OF OPERATIONS

# FOR THE SIX MONTHS ENDED JUNE 30, 2017

(in thousands except per share data)

	Invitae (Historical)		CombiMatrix (Historical)		Pro Forma Adjustments		Note No.		
Revenue:									
Test revenue	\$	23,287	\$	7,972	\$			\$	31,259
Other revenue		1,387		56					1,443
Total revenue		24,674		8,028					32,702
Costs and operating expenses:									
Costs of revenue		19,819		3,140		379	(J)		23,338
Research and development		21,362		170		2	(J)		21,534
Selling and marketing		24,092		2,038		855	(J)		26,985
General and administrative		14,813		3,569		(378)	(J)(K)		18,004
Total costs and operating expenses		80,086		8,917		858			89,861
Loss from operations		(55,412)		(889)		(858)			(57,159)
Other income (expense), net		(540)		11					(529)
Interest expense		(1,389)		(10)					(1,399)
Net loss before taxes Income tax benefit		(57,341) (1,856)		(888)		(858)			(59,087) (1,856)
Net loss	\$	(55,485)	\$	(888)	\$	(858)		\$	(57,231)
Net loss per share, basic and diluted	\$	(1.30)						\$	(1.24)
Shares used in computing net loss per share, basis and diluted	4	2,808,175			3	,476,733	(I)	40	5,284,908

#### NOTES TO UNAUDITED PRO FORMA CONDENSED

#### **COMBINED FINANCIAL STATEMENTS**

#### 1. Description of Transaction and Basis of Presentation

#### **Description of Transaction**

On July 31, 2017, Invitae Corporation, ( Invitae ) entered into an Agreement and Plan of Merger and Reorganization ( Merger Agreement ) with CombiMatrix Corporation, ( CombiMatrix ), pursuant to which, among other things, subject to the satisfaction or waiver of the conditions set forth in the Merger Agreement, Coronado Merger Sub, Inc., a wholly owned subsidiary of Invitae, will merge with and into CombiMatrix, with CombiMatrix surviving as a wholly owned subsidiary of Invitae (the Merger ). The CombiMatrix Merger is intended to qualify for federal income tax purposes as a tax-free reorganization under the provisions of Section 368(a) of the Internal Revenue Code of 1986, as amended (the Internal Revenue Code ). Invitae is considered to be the acquiring company for accounting purposes in this transaction.

The completion of the Merger is subject to various closing conditions, including, among others, (i) approval by the CombiMatrix stockholders of the Merger Proposal, (ii) completion of the Offer (which may be completed at the same time as the Merger is completed), which requires the participation by holders of at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement, (iii) the accuracy of the representations and warranties of CombiMatrix and Invitae, (iv) the performance by CombiMatrix and Invitae in all material respects of their respective obligations under the Merger Agreement, (v) the effectiveness of the registration statements for the issuance of shares of Invitae common stock in the Merger and Offer, (vi) the repurchase by CombiMatrix of all of its Series A, Series B, Series C, Series E and PIPE warrants, and (vii) receipt of NYSE listing approval for the shares of Invitae common stock to be issued in the Merger and Offer.

The unaudited pro forma condensed combined financial statements assume that (i) the Merger Proposal is approved by 100% of the CombiMatrix stockholders, (ii) none of the CombiMatrix Series A, Series B, Series C, Series D, Series E, Series F or PIPE warrants are exercised, and (iii) all other Merger-related transactions (e.g., the CombiMatrix Series F preferred stock is converted into Invitae common stock; the CombiMatrix Series A, Series B, Series C, Series E and PIPE warrants are repurchased; and the Offer for CombiMatrix Series F warrants is accepted by 100% of such warrant holders) are consummated.

#### Basis of Presentation

The accompanying unaudited pro forma condensed combined financial statements were prepared in accordance with the regulations of the Securities and Exchange Commission (SEC) and are intended to show how the Merger might have affected the historical financial statements if the Merger had been completed on January 1, 2016 for the purposes of the condensed combined statements of operations, and as of June 30, 2017 for purposes of the condensed combined balance sheet. Both Invitae and CombiMatrix s historical audited and unaudited financial statements were prepared in accordance with U.S. GAAP and are presented in thousands of U.S. dollars. The historical CombiMatrix financial statements included within the unaudited pro forma condensed combined balance sheet and statements of operations include certain reclassifications that were made to conform CombiMatrix s financial statement presentation to that of Invitae.

The unaudited pro forma condensed combined statements of operations also include certain acquisition accounting adjustments, including items expected to have a continuing impact on the results of the combined company, such as

increased amortization expense on acquired intangible assets. The unaudited pro forma condensed combined statements of operations do not include the impacts of any operating synergies that may result from the Merger or any related restructuring costs that may be contemplated.

Based on the terms of the Merger, Invitae is deemed to be the acquiring company for accounting purposes and the transaction represents a business combination pursuant to Financial Accounting Standards Board Accounting Standards Codification Topic 805, *Business Combinations*.

The proposed transaction is accounted for using the acquisition method of accounting. Under the acquisition method of accounting, identifiable assets and liabilities of CombiMatrix, including identifiable intangible assets, are recorded based on their estimated fair values as of the date of the closing of the proposed transaction. Goodwill is calculated as the difference between the estimated acquisition consideration and fair values of identifiable net assets acquired. Invitae has not completed a full, detailed valuation analysis necessary to determine the fair values of CombiMatrix s identifiable assets to be acquired and liabilities to be assumed. As of the date of this prospectus/offer to exchange, the valuation studies necessary to estimate the fair values of the assets acquired and liabilities assumed have been performed based on publicly available benchmarking information as well as a variety of other assumptions, including market participant assumptions, as there are limitations on the type of information that can be exchanged between Invitae and CombiMatrix at this time. Until the Merger is complete, all the relevant information will not be known. Differences between preliminary estimates and the final acquisition accounting will occur. For purposes of these unaudited pro forma combined condensed financial statements, the acquisition consideration is estimated assuming the 30-day trailing average closing price of \$9.49 for Invitae s common stock on July 31, 2017, the date the Merger Agreement was executed, assuming that the transaction closed on July 31, 2017. Total consideration transferred as of this date is estimated to be \$31.5 million. Total acquisition consideration is estimated to be \$31.0 million, which excludes post-combination expense of \$488,000. The pro forma adjustments described below were developed based on Invitae s management s assumptions and estimates, including assumptions relating to the consideration paid and the fair value of the identifiable assets acquired and liabilities assumed from CombiMatrix. The amounts of the acquisition consideration, assets acquired and liabilities assumed that will be used in acquisition accounting will be based on their respective fair values as determined at the time of closing, and may differ significantly from these preliminary estimates.

#### 2. Preliminary Purchase Price

The estimated preliminary consideration for the acquisition is as follows (in thousands):

Estimated fair value of total acquisition consideration	
transferred	\$ 31,465
Less: post-combination share-based expense attributable to outstanding and unexercised stock options and outstanding restricted stock units	(488)
Estimated total acquisition consideration	\$ 30,977

The fair value of the total acquisition transferred is calculated using the closing price of Invitae s common stock on July 31, 2017. Invitae will issue approximately 2,845,100 shares of common stock in exchange for CombiMatrix s (i) common stock, (ii) outstanding and unexercised in-the-money stock options and outstanding restricted stock. Invitae will also issue approximately 631,633 shares of common stock in exchange for CombiMatrix s Series F warrants.

The estimated fair values of outstanding in-the-money stock options and restricted stock units is approximately \$33,000 and \$1.1 million, respectively, of which \$25,000 and \$463,000, respectively, will be recognized as expenses

immediately upon the closing of the transaction.

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The fair value of the assets acquired and liabilities assumed, assuming the Merger has closed on June 30, 2017, are summarized below (in thousands):

Cash and cash equivalents	\$ 2,563
Accounts receivable, net	4,006
Fixed assets	523
Other assets	568
Intangible assets	19,154
Total liabilities	(6,480)
Deferred tax liability	(5,850)
Estimated total purchase price of net assets acquired	14,484
Excess of acquisition consideration over fair value of net assets	
acquired	16,493
Estimated total acquisition consideration	\$ 30,977

The application of the acquisition method of accounting is dependent upon the completion of a full, detailed valuation analysis that has yet to be completed. The estimated values of the assets acquired and liabilities assumed will remain preliminary until after closing of the transaction, at which time Invitae management will determine the fair values of assets acquired and liabilities assumed. The final determination of the purchase price allocation is anticipated to be completed as soon as practicable after completion of the transaction and will be based on the fair values of the assets acquired and liabilities assumed as of the transaction closing date. The final amounts allocated to assets acquired and liabilities assumed could differ significantly from the amounts presented in the unaudited pro forma condensed combined financial statements for the reasons described in Note 1.

#### 3. Pro Forma Adjustments

Pro forma adjustments are necessary to reflect the acquisition consideration exchanged and to adjust amounts related to the tangible and intangible assets and liabilities of CombiMatrix to a preliminary estimate of their fair values, and to reflect the impact on the statements of operations of the proposed transaction as if the companies had been combined during the periods presented therein. The pro forma adjustments included in the unaudited pro forma condensed combined financial statements are as follows:

- (A) To reflect the repurchase of CombiMatrix Series A, Series B, Series C, Series E and PIPE warrants as a condition of the consummation of the Merger.
- (B) To reflect the estimated fair value of CombiMatrix intangible assets acquired, which includes the following:

Intangible Asset	<b>Estimated Useful Life (Years)</b>
Trade name	3
Patent licensing agreement	10

Technology	5
Customer relationships	10

- (C) To reflect goodwill, which is calculated as the difference between the fair value of the consideration paid and the values assigned to the identifiable tangible and intangibles assets acquired and liabilities assumed.
- (D) To reflect estimated transaction costs at June 30, 2017 that are expected to be incurred prior to the transaction closing and that have not yet been incurred (see note 4).
- (E) To reflect the assumed transaction bonus payable by Invitae in the amount of \$2,618,000 to certain executives of CombiMatrix following the consummation of the Merger.

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- (F) To reflect the assumed severance payments payable by Invitae in the amount of \$530,000 to certain executives of CombiMatrix following their termination after the consummation of the Merger.
- (G) To reflect the deferred tax liability related to the acquired intangible assets.
- (H) To reflect the elimination of CombiMatrix s historical equity consisting of common stock, paid-in capital, and accumulated deficit.
- (I) To reflect the issuance of Invitae common stock in the Merger, including the fair value of post-combination expense in relation to stock options, restricted stock units and warrants (see note 2).
- (J) To reflect the amortization of intangibles acquired.
- (K) To reflect the elimination of transaction costs recorded in the historical statements of operations in the amount of \$396,000 as these are directly attributable to the transaction and non-recurring.

### 4. Non-recurring Transaction Costs

Invitae and CombiMatrix have incurred, and Invitae will continue to incur, certain non-recurring transaction expenses in connection with the proposed Merger. Non-recurring transaction expenses incurred by Invitae and CombiMatrix were \$396,000 during the six months ended June 30, 2017 and are reflected as an adjustment to reduce general and administrative expenses in the pro forma condensed combined statement of operations as they are non-recurring and directly attributable to the Merger. Neither Invitae nor CombiMatrix incurred any transaction costs related to this Merger in the year ended December 31, 2016. The pro forma condensed combined balance sheet as of June 30, 2017 includes an adjustment of \$600,000 to accrued liabilities and accumulated deficit for transaction expenses expected to be incurred by Invitae subsequent to June 30, 2017. These transaction expenses are not reflected in the pro forma condensed combined statement of operations for the six months ended June 30, 2017, as they are not expected to have a continuing impact on operations. Estimated transaction expenses of CombiMatrix, which had not been incurred as of June 30, 2017, are expected to be \$565,000 and have been included in assumed liabilities as of June 30, 2017 in the unaudited pro forma condensed combined balance sheet.

The transaction bonus costs are not reflected in the pro forma condensed combined statement of operations for the year ended December 31, 2016 and the six months ended June 30, 2017, as these costs will not impact Invitae s consolidated statement of operations in the periods following the acquisition date.

#### COMPARATIVE MARKET PRICES AND DIVIDENDS

CombiMatrix Series F warrant holders are advised to obtain current market quotations for Invitae common stock and CombiMatrix Series F warrants. The market price of Invitae common stock and CombiMatrix Series F warrants will fluctuate between the date of this document and the expiration of the Offer. No assurance can be given concerning the market price of Invitae common stock or CombiMatrix Series F warrants before or after the expiration of the Offer.

#### **Invitae Common Stock**

Invitae common stock is listed on the NYSE under the symbol NVTA. Prior to February 12, 2015, there was no public market for Invitae s common stock. Invitae s fiscal year ends on December 31 of each year. The following table shows the high and low reported intraday sales prices per share of Invitae common stock as reported on the NYSE.

	Sales Price	Sales Price Per Share		
	High	]	Low	
Fiscal year ended December 31, 2015				
First Quarter	\$ 22.35	\$	16.30	
Second Quarter	\$ 17.43	\$	10.50	
Third Quarter	\$ 15.48	\$	6.58	
Fourth Quarter	\$ 10.10	\$	6.46	
Fiscal year ended December 31, 2016				
First Quarter	\$11.25	\$	5.66	
Second Quarter	\$11.85	\$	7.14	
Third Quarter	\$ 9.84	\$	7.22	
Fourth Quarter	\$ 9.50	\$	5.76	
Fiscal year ended December 31, 2017				
First Quarter	\$11.30	\$	7.95	
Second Quarter	\$11.88	\$	8.17	

On July 31, 2017, the date of the public announcement of the Merger Agreement, the high and low sales prices of shares of Invitae common stock as reported on the NYSE were \$9.56 and \$9.26, respectively. On September 29, 2017, the latest practicable trading day before the date of this prospectus/offer to exchange, the high and low sales prices of shares of Invitae common stock as reported on the NYSE were \$9.37 and \$9.14, respectively. As of September 26, 2017, there were 69 stockholders of record of Invitae common stock. The actual number of stockholders is greater than this number of record holders and includes stockholders who are beneficial owners but whose shares are held in street name by brokers and other nominees.

#### **CombiMatrix Series F Warrants**

CombiMatrix Series F warrants are listed on the NASDAQ Capital Market under the symbol CBMXW. CombiMatrix s fiscal year ends on December 31 of each year. The following table shows the high and low reported intraday sales prices of CombiMatrix Series F warrants as reported on the NASDAQ Capital Market since the original issuance and listing of the CombiMatrix Series F warrants in connection with CombiMatrix s March 24, 2016 underwritten public offering.

	Sales Price	Sales Price Per Share		
	High	Low		
Fiscal year ended December 31, 2016				
First Quarter	\$ 1.01	\$	0.55	
Second Quarter	\$ 1.34	\$	0.01	
Third Quarter	\$ 1.35	\$	0.09	
Fourth Quarter	\$ 1.05	\$	0.25	
Fiscal year ended December 31, 2017				
First Quarter	\$ 1.31	\$	0.43	
Second Quarter	\$ 1.84	\$	0.66	

On July 31, 2017, the date of the public announcement of the Merger Agreement, the high and low sales prices of CombiMatrix Series F warrants as reported on the NASDAQ Capital Market were \$1.30 and \$1.10, respectively. On September 29, 2017, the last practicable trading day before the date of this document, the high and low sales prices of CombiMatrix Series F warrants as reported on the NASDAQ Capital Market were \$2.50 and \$2.49, respectively. As of September 26, 2017, there was one holder of record of CombiMatrix Series F warrants, and that holder was The Depository Trust Company. The actual number of holders of CombiMatrix Series F warrants is greater than this number of record holders and includes warrant holders who are beneficial owners but whose warrants are held in street name by brokers, dealers, commercial banks, trust companies and other nominees.

#### **Dividends**

Neither Invitae nor CombiMatrix has paid or declared any cash dividends on their common stock, and neither anticipates paying cash dividends on its common stock for the foreseeable future. Both Invitae and CombiMatrix currently expect to retain any future earnings to fund operations and expand their businesses. Notwithstanding the foregoing, any determination to pay cash dividends subsequent to the Merger will be at the discretion of Invitae s board of directors and will depend upon a number of factors, including its results of operations, financial condition, capital requirements, future prospects, contractual restrictions, general business conditions, restrictions imposed by applicable law and other factors Invitae s board of directors deems relevant. In addition, the terms of Invitae s loan agreement prohibit the payment of dividends.

#### COMPARATIVE MARKET VALUE OF SECURITIES

Invitae common stock is listed on the NYSE under the symbol NVTA. CombiMatrix common stock is listed on the NASDAQ Capital Market under the symbol CBMX and CombiMatrix Series F warrants are listed on the NASDAQ Capital Market under the symbol CBMXW. The following table shows the closing prices of Invitae common stock, CombiMatrix common stock and CombiMatrix Series F warrants as reported on July 28, 2017, the last trading day prior to public announcement of the Merger, on July 31, 2017, the date of the public announcement of the Merger, and on September 29, 2017, the last practicable date prior to the date of this document. This table also shows the implied value of the Merger consideration proposed for each share of CombiMatrix common stock, which was calculated by multiplying the closing price of Invitae common stock on the relevant date by the estimated Merger Exchange Ratio of 0.91 (i.e., assuming that 100% of the CombiMatrix Series F warrants are exchanged in the Offer).

	Invitae	g Price of Common	Closing Price of CombiMatrix Common		CombiMatrix Implied Value of		Closing Price of CombiMatrix Series F Warrants	
As of July 28, 2017	\$	9.51	\$	5.15	\$	8.62	\$	1.35
As of July 31, 2017	\$	9.28	\$	4.95	\$	8.41	\$	1.25
As of September 29, 2017	\$	9.37	\$	7.50	\$	8.49	\$	2.50

The market price of Invitae common stock, CombiMatrix common stock and CombiMatrix Series F warrants will fluctuate prior to the Expiration Date and before the Merger is completed, which will affect the implied value of the Merger consideration to CombiMatrix stockholders. You should obtain current market quotations for the shares and CombiMatrix Series F warrants.

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#### COMPARATIVE PER SHARE DATA

The following table shows, for the six months ended June 30, 2017 and the year ended December 31, 2016, selected per share information for CombiMatrix common stock and Invitae common stock on a historical and pro forma equivalent basis. Except for the historical information as of and for the year ended December 31, 2016, the information in the table is derived from unaudited information. You should read the data with the historical consolidated financial statements and related notes of Invitae contained in its Annual Report on Form 10-K for the year ended December 31, 2016, which has been incorporated into this document by reference, and the historical financial statements and related notes of CombiMatrix contained in its Annual Report on Form 10-K for the year ended December 31, 2016, attached as *Annex B* to this prospectus/offer to exchange, as well as the unaudited pro forma condensed combined financial statements and related notes contained in the section entitled *Unaudited Pro Forma Condensed Combined Financial Information*. The following data is not necessarily indicative of future operations of the combined company.

The pro forma equivalent data for CombiMatrix are calculated by multiplying the pro forma combined (loss) income from continuing operations per share, pro forma dividends declared per share and pro forma book value by the estimated Merger Exchange Ratio so that the per share amounts are equated to the respective values for one share of CombiMatrix common stock. The assumed Merger Exchange Ratio is 0.91 shares of Invitae common stock for one share of CombiMatrix common stock. The pro forma condensed combined statement of operations data assumes the Merger, the Offer and related events were consummated on January 1, 2016, the beginning of Invitae s 2016 fiscal year. The pro forma condensed combined balance sheet data assumes the Merger was consummated June 30, 2017.

	CombiMatrix Pro Forma			Invitae Pro Forma		
	Historical	Equivalent		Historical	Combined	
(Loss) Income from Continuing Operations		-				
Per Share						
Basic						
Six Months Ended June 30, 2017	\$ (0.31)	\$	(1.13)	\$ (1.30)	\$	(1.24)
Year Ended December 31, 2016	\$ (3.27)	\$	(2.66)	\$ (3.02)	\$	(2.92)
Diluted						
Six Months Ended June 30, 2017	\$ (0.31)	\$	(1.13)	\$ (1.30)	\$	(1.24)
Year Ended December 31, 2016	\$ (3.27)	\$	(2.66)	\$ (3.02)	\$	(2.92)
Cash Dividends Declared Per Share						
Six Months Ended June 30, 2017	None		None	None		None
Year Ended December 31, 2016	None		None	None		None
Book Value Per Share						
June 30, 2017	\$ 2.04	\$	3.23	\$ 1.54	\$	3.55

#### RECENT DEVELOPMENTS

#### **Invitae Private Placement**

On August 3, 2017, Invitae closed a private placement to certain accredited investors, in which it sold 5,188,235 shares of common stock at a price of \$8.50 per share, and 3,458,823 shares of Series A convertible preferred stock at a price of \$8.50 per share, for gross proceeds of approximately \$73.5 million and estimated net proceeds of \$68.8 million. The Series A convertible preferred stock is a non-voting common stock equivalent, and conversion of the Series A convertible preferred stock is prohibited if the holder exceeds a specified threshold of voting security ownership. The Series A convertible preferred stock is convertible into common stock on a one-for-one basis, subject to adjustment for events such as stock splits, combinations and the like.

#### Acquisition of Good Start Genetics, Inc. by Invitae

On July 31, 2017, Invitae, Bueno Merger Sub, Inc., a wholly owned subsidiary of Invitae, and Good Start Genetics, Inc., a privately-held Delaware corporation, or Good Start, entered into a merger agreement pursuant to which Good Start would become a wholly owned subsidiary of Invitae. The acquisition closed on August 4, 2017. Consideration for the Good Start acquisition consisted of approximately \$40.0 million, including approximately \$16.0 million in shares of Invitae common stock, or approximately 1.69 million shares, subject to a hold back of approximately 25% of such amount for up to 13 months to cover potential indemnification liabilities, cash of up to approximately \$18.4 million, which was paid to retire certain Good Start debt and the payment or assumption of approximately \$5.6 million in pre-closing and closing-related liabilities and obligations of Good Start.

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#### **RISK FACTORS**

In addition to the other information included in and incorporated by reference into this document, including the risk factors and other information set forth in the Quarterly Report on Form 10-Q of Invitae for the quarter ended June 30, 2017, the Annual Report on Form 10-K of Invitae for the fiscal year ended December 31, 2016, the Quarterly Report on Form 10-Q of CombiMatrix for the quarter ended June 30, 2017 attached as Annex C to this prospectus/offer to exchange, and the Annual Report on Form 10-K of CombiMatrix for the fiscal year ended December 31, 2016 attached as Annex B to this prospectus/offer to exchange, and the matters addressed in the section entitled Cautionary Statement Regarding Forward-Looking Statements, you should carefully consider the following risk factors before deciding whether to tender CombiMatrix Series F warrants in the Offer. For further discussion of these and other risk factors, please see Invitae s and CombiMatrix s periodic reports and other documents incorporated by reference into this document. See the section entitled Where You Can Find More Information in this prospectus/offer to exchange.

#### Risks Related to the Offer

The completion of the proposed Merger is subject to a number of conditions that are outside the control of Invitae and CombiMatrix, and there can be no assurance that the proposed Merger will be completed in a timely manner or at all. If the Merger is not consummated, Invitae s and CombiMatrix s businesses could suffer materially and their respective stock prices could decline.

The consummation of the proposed Merger between Invitae and CombiMatrix is subject to a number of closing conditions, including but not limited to (i) the approval by CombiMatrix s stockholders and (ii) completion of this Offer, which requires (a) a minimum participation level by holders of at least 90% of the Series F warrants outstanding immediately prior to the date of the Merger Agreement, unless waived by Invitae, and (b) other closing conditions to the Offer are satisfied. The completion of the Merger is also subject to a number of other conditions, including certain governmental approvals and the absence of a material adverse effect upon either party. There is no assurance that all of the conditions will be satisfied or waived. If the conditions are not satisfied or waived, the Merger may not occur or will be delayed, and Invitae and CombiMatrix may lose some or all of the intended benefits of the Merger.

If the proposed Merger is not consummated, Invitae and CombiMatrix may be subject to a number of material risks, and each of their respective businesses and stock prices could be adversely affected, as follows:

Invitae and CombiMatrix have each incurred and expect to continue to incur significant expenses related to the proposed Merger even if the Merger is not consummated;

If the Merger Agreement is terminated under certain circumstances, CombiMatrix may be required to pay Invitae a termination fee of \$1,400,000 (net of expense reimbursement previously paid);

If the Merger Agreement is terminated under certain circumstances, either party may be required to reimburse the other party for various expenses incurred in connection with the Merger up to a maximum of \$400,000:

If the Merger Agreement is terminated under circumstances that require CombiMatrix to pay Invitae a termination fee and/or expense reimbursement, CombiMatrix may not have sufficient funds to make such payments to Invitae; or

The market price of Invitae s or CombiMatrix s common stock may decline to the extent that the current market price reflects a market assumption that the proposed Merger will be completed.

The liquidity of the CombiMatrix Series F warrants that are not exchanged will be reduced.

In connection with the completion of the Offer and the Merger, Invitae and CombiMatrix intend to make the appropriate filings to delist any remaining unexchanged CombiMatrix Series F warrants from trading on the NASDAQ Capital Market, presuming any such unexchanged warrants will qualify for delisting. The

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CombiMatrix Series F warrants that are not validly tendered in the Offer, if any, and that remain outstanding and unexercised at the time of the Merger will be assumed by Invitae and converted into warrants to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such warrants being adjusted appropriately to reflect the Merger Exchange Ratio. Invitae does not intend to list such warrants for trading on any national stock exchange.

The ability to sell unexchanged warrants which are converted into Invitae warrants will become limited and could cease to exist due to the reduction in the anticipated amount of the warrants outstanding upon completion of the Offer and the delisting of the warrants from the NASDAQ Capital Market. A more limited trading market might adversely affect the liquidity, market price and price volatility of these securities. Even if a market for such warrants develops, these securities may trade at a discount to the price at which the securities would trade if the amount outstanding were not reduced and the securities were not delisted from trading on the NASDAQ Capital Market, depending on the market for similar securities and other factors. There can be no assurance that any market or an active market in the warrants will exist, develop or be maintained or as to the prices at which such warrants may be traded.

The principal form of Offer consideration is shares of Invitae common stock, the price of which is volatile and could fluctuate substantially, whether before or after the consummation of the Merger.

The market price of Invitae common stock that CombiMatrix Series F warrant holders will receive in the Offer may be volatile and could fluctuate substantially due to many factors, including, among other things:

actual or anticipated fluctuations in Invitae s results of operations;

competition from existing tests or new tests that may emerge;

announcements by Invitae or its competitors of significant acquisitions, strategic partnerships, joint ventures, collaborations, or capital commitments;

failure to meet or exceed financial estimates and projections of the investment community or that Invitae provides to the public;

issuance of new or updated research or reports by securities analysts or changed recommendations for Invitae common stock;

Invitae s focus on long-term goals over short-term results;

the timing of Invitae s investments in the growth of its business;

actual or anticipated changes in regulatory oversight of Invitae s business;

additions or departures of key management or other personnel;

disputes or other developments related to Invitae s intellectual property or other proprietary rights, including litigation;

sale of common stock or other securities in the future;

the trading volume of Invitae common stock;

changes in reimbursement by current or potential payers;

changes in Invitae s pricing policies or the pricing policies of its competitors; and

general economic and market conditions.

Share price changes may result from a variety of factors, including general market and economic conditions, changes in Invitae s and CombiMatrix s respective businesses, operations and prospects, and regulatory considerations, among other things. Many of these factors are beyond the control of Invitae and CombiMatrix.

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CombiMatrix Series F warrant holders should obtain current market quotations for Invitae common stock before tendering their Series F warrants in the Offer. In addition, the stock market in general has experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of companies whose shares are traded on the stock market. These broad market factors may materially harm the market price of Invitae common stock, regardless of Invitae s operating performance.

CombiMatrix may not be able to meet its cash requirements beyond August 2018 without obtaining additional capital from external sources and its current outstanding warrants issued in connection with various past preferred stock financings may prevent it from issuing new securities. If CombiMatrix is unable to raise additional capital through future financings or from external sources, it may not be able to continue as a going concern.

As of June 30, 2017, CombiMatrix had \$3.0 million in cash and cash equivalents, which it anticipates will meet its cash requirements through and beyond the fourth quarter of 2017. However, in order for CombiMatrix to continue as a going concern beyond that point in the absence of the Merger, it will have to increase revenue and cash reimbursement, continue to control operating expenses and may be required to obtain capital from external sources. CombiMatrix s ability to continue as a going concern in the absence of the Merger is dependent upon its ability to further implement its business plan, generate sufficient revenues and cash reimbursement and to control operating expenses, of which there can be no assurance.

In order to issue securities at a price below the exercise prices of CombiMatrix s outstanding warrants issued in connection with its past preferred stock private placement financings, CombiMatrix must obtain the affirmative consent of holders of at least 67% of such outstanding CombiMatrix warrants. If CombiMatrix is unable to obtain the consent of these holders in connection with future financings, CombiMatrix may be unable to raise additional capital on acceptable terms, or at all. If external financing sources are not available in a timely manner or at all, or are inadequate to fund CombiMatrix s operations, is could experience reduced revenues and cash flows from the sales of its diagnostic services and its ability to launch, market and sell additional services necessary to grow and sustain its operations could be jeopardized.

Some CombiMatrix executive officers and directors have interests in the Merger and Offer that are different from yours.

Executive officers of CombiMatrix negotiated the terms of the Merger Agreement with Invitae, and the CombiMatrix board of directors approved the Merger and recommended that its stockholders vote to approve and adopt the Merger Agreement and the transactions contemplated thereby, including the Merger. In considering the information contained in this document, you should be aware that some members of CombiMatrix s management and certain members of its board of directors have economic interests in the Merger and Offer that are different from yours, including with respect to compensation to be received by certain CombiMatrix directors and executives under the CombiMatrix Transaction Bonus Payout Agreements, and pursuant to certain consulting agreements between Invitae and CombiMatrix s chief executive officer and chief financial officer. Please see the section entitled *The Offer Interests of Certain CombiMatrix Directors and Officers*.

The shares of Invitae common stock to be issued to CombiMatrix Series F warrant holders in the Offer will have different rights from shares of CombiMatrix common stock underlying such Series F warrants.

Upon the completion of the Offer, holders of Series F warrants to purchase shares of CombiMatrix common stock that are tendered in the Offer will become Invitae common stockholders and their rights as stockholders will be governed by the organizational documents of Invitae. The rights associated with the CombiMatrix common stock underlying the Series F warrants are different from the rights associated with Invitae common stock. Please see the section entitled

Comparison of Rights of Invitae and CombiMatrix Stockholders.

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The unaudited pro forma condensed combined financial information included in this prospectus/offer to exchange is illustrative only and the actual financial condition and results of operations after the Offer and the Merger may differ materially.

The unaudited pro forma condensed combined financial information in this prospectus/offer to exchange is presented for illustrative purposes only and is not necessarily indicative of what Invitae s actual financial condition or results of operations would have been had the Offer and the Merger been completed on the dates indicated. The unaudited pro forma condensed combined financial information reflects adjustments, which are based upon preliminary estimates, to record the identifiable tangible and intangible CombiMatrix assets acquired and liabilities assumed at fair value and the resulting goodwill recognized. The purchase price allocation reflected in this prospectus/offer to exchange is preliminary and final allocation of the purchase price will be based upon the actual purchase price and the fair value of the assets and liabilities of CombiMatrix as of the date of the completion of the Merger. Accordingly, the final acquisition accounting adjustments may differ materially from the pro forma adjustments reflected in this prospectus/offer to exchange. For more information, please see the section entitled *Unaudited Pro Forma Condensed Combined Financial Information*.

#### Risks Related to Invitae s Business and Strategy

Invitae s success will depend on its ability to use rapidly changing genetic data to interpret test results accurately and consistently, and its failure to do so would have an adverse effect on Invitae s operating results and business, harm its reputation and could result in substantial liabilities that exceed its resources.

Invitae s success depends on its ability to provide reliable, high-quality tests that incorporate rapidly evolving information about the role of genes and gene variants in disease and clinically relevant outcomes associated with those variants. Errors, such as failure to detect genomic variants with high accuracy, or mistakes, such as failure to identify, or incompletely or incorrectly identifying, gene variants or their significance, could have a significant adverse impact on Invitae s business.

In August 2017, a client reported a discrepancy between an Invitae test report and a test report issued by another laboratory for the presence of a single rare variant in the MSH2 gene known as the Boland inversion. This gene is associated with Lynch syndrome, which is a familial cancer syndrome that significantly increases the risk of colorectal and other cancers. Invitae s assay had reliably detected the Boland inversion event since its first validation. However, during the implementation of an update to the assay, Invitae omitted the components designed specifically to identify the Boland inversion event. As soon as Invitae learned of the error, Invitae quickly rectified it and implemented three new quality checks to ensure this type of error does not happen again. Invitae has identified all potential patients impacted by this incident, and is reanalyzing its previous test results to ensure their accuracy. Invitae expects that less than 50 patients will be affected by this incident. Invitae also expects to complete reanalysis and notification to impacted patients and their clinicians in the fourth quarter of 2017.

Hundreds of genes can be implicated in some disorders, and overlapping networks of genes and symptoms can be implicated in multiple conditions. As a result, a substantial amount of judgment is required in order to interpret testing results for an individual patient and to develop an appropriate patient report. Invitae classifies variants in accordance with published guidelines as benign, likely benign, variants of uncertain significance, likely pathogenic or pathogenic, and these guidelines are subject to change. In addition, it is Invitae s practice to offer support to clinicians and geneticists ordering Invitae s tests regarding which genes or panels to order as well as interpretation of genetic variants. Invitae also relies on clinicians to interpret what Invitae reports and to incorporate specific information about an individual patient into the physician s treatment decision.

The marketing, sale and use of Invitae s genetic tests could subject Invitae to liability for errors in, misunderstandings of, or inappropriate reliance on, information it provides to clinicians or geneticists, and lead to claims against it if someone were to allege that a test failed to perform as it was designed, if Invitae failed to correctly interpret the test results, or if the ordering physician were to misinterpret test results or improperly rely on them when making a clinical decision. A product liability or professional liability claim could result in

substantial damages and be costly and time-consuming for Invitae to defend. Although Invitae maintains liability insurance, including for errors and omissions, it cannot assure you that such insurance would fully protect Invitae from the financial impact of defending against these types of claims or any judgments, fines or settlement costs arising out of any such claims. Any liability claim, including an errors and omissions liability claim, brought against Invitae, with or without merit, could increase Invitae s insurance rates or prevent it from securing insurance coverage in the future. Additionally, any liability lawsuit could cause injury to Invitae s reputation or cause it to suspend sales of its tests. The occurrence of any of these events could have an adverse effect on Invitae s business, reputation and results of operations.

#### CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This document contains or incorporates by reference certain forward-looking statements, including statements about the financial condition, results of operations, earnings outlook and prospects of Invitae and CombiMatrix and the Offer and the proposed Merger, which are subject to numerous assumptions, risks and uncertainties. These forward-looking statements are found at various places throughout this document, including in the section entitled *Risk Factors*. You can find many of these statements by looking for words such as plan, believe, expect, intent, anticipate, estimate, project, potential, possible or other similar expressions. Actual results could differ materiall from those contained or implied by such statements for a variety of factors, including:

strategies, prospects, plans, expectations or objectives of management of Invitae or CombiMatrix for future operations of the combined company;

the anticipated operations, financial position, revenues, costs or expenses of Invitae, CombiMatrix or the combined company;

any changes in future economic conditions or performance;

competitive pressures on product pricing and services;

the effect of governmental regulations, including the possibility that there are unexpected delays in obtaining regulatory approvals;

the failure to obtain approval of CombiMatrix s stockholders;

the failure to complete the Offer;

the effect of any litigation relating to completion of the Merger and the Offer; and/or

other risks discussed and identified in public filings with the Securities and Exchange Commission made by CombiMatrix or Invitae.

All forward-looking statements included in this document are based on information available at the time of this document. These forward-looking statements should not be relied upon as predictions of future events as neither Invitae nor CombiMatrix cannot assure you that the events or circumstances in these statements will be achieved or will occur. Neither Invitae nor CombiMatrix assumes any obligation to update any forward-looking statement.

For additional information about factors that could cause actual results, performance or achievements to differ materially from those expressed or implied by the forward-looking statements, please see the reports that Invitae and

CombiMatrix have filed with the Securities and Exchange Commission as described in the section entitled *Where You Can Find More Information.* 

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#### INFORMATION ABOUT THE COMPANIES

#### **Invitae Corporation**

1400 16th Street

San Francisco, CA 94103

(415) 374-7782

Invitae s mission is to bring comprehensive genetic information into mainstream medical practice to improve the quality of healthcare for billions of people. Invitae s goal is to aggregate most of the world s hereditary genetic tests into a single service with higher quality, faster turnaround time and lower pricing than many single gene tests today. Invitae was founded on four core principles: patients should own and control their own genetic information; healthcare professionals are fundamental in ordering and interpreting genetic information; driving down the price of genetic information will increase its clinical and personal utility; and genetic information is more valuable when shared. Invitae utilizes an integrated portfolio of laboratory processes, software tools and informatics capabilities to process DNA-containing samples, analyze information about patient-specific genetic variation and generate test reports for clinicians and their patients. Invitae currently has more than 20,000 genes in production and provides a variety of diagnostic tests that can be used in multiple indications. Invitae s tests include multiple genes associated with hereditary cancer, neurological disorders, cardiovascular disorders, pediatric disorders, metabolic disorders and other hereditary conditions, as well as recently acquired capabilities in preimplantation and carrier screening for inherited disorders. Invitae now provides comprehensive genetic information for every stage of life, from preconception through adult diagnostics.

Invitae common stock is currently listed on the New York Stock Exchange under the symbol NVTA.

#### CombiMatrix Corporation

300 Goddard, Suite 100

Irvine, CA 92618

(949) 753-0624

CombiMatrix is a family health-focused clinical molecular diagnostic laboratory specializing in pre-implantation genetic screening, prenatal diagnosis, miscarriage analysis, and pediatric developmental disorders. CombiMatrix strives to provide best-in-class clinical laboratory support to healthcare professionals, allowing them to maximize the clinical utility of their patients—test results and to optimize patient care. CombiMatrix—s testing focuses on advanced technologies, including single nucleotide polymorphism, or SNP, chromosomal microarray analysis, next-generation sequencing, fluorescent *in situ* hybridization, or FISH, and high resolution chromosome analysis (also referred to as karyotyping). CombiMatrix—s approach to testing is to offer sophisticated technology along with high quality clinical support to its ordering physicians and their patients. CombiMatrix also own a one-third minority interest in Leuchemix, Inc., a private drug development company focused on developing a series of compounds to address a number of oncology-related diseases.

CombiMatrix was originally incorporated in October 1995 as a California corporation. In September 2000, CombiMatrix was reincorporated as a Delaware corporation. In August 2007, CombiMatrix became publicly traded

on NASDAQ under the symbol CBMX, where it is currently listed and traded. The CombiMatrix Series F warrants are listed on NASDAQ under the symbol CBMXW. Following completion of the Merger, the CombiMatrix common stock and the CombiMatrix Series F warrants will cease trading on NASDAQ and CombiMatrix will file the appropriate forms with the Securities and Exchange Commission to suspend its reporting obligations under the Securities Exchange Act of 1934, as amended, or the Exchange Act.

Coronado Merger Sub, Inc.

1400 16th Street

San Francisco, CA 94103

(415) 374-7782

Merger Sub is a wholly owned subsidiary of Invitae and was formed solely for the purpose of carrying out the Merger. In the Merger, Merger Sub will merge with and into CombiMatrix and Merger Sub will cease to exist.

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## BACKGROUND OF THE MERGER AND THE OFFER

## **Background of the Merger and the Offer**

On September 23, 2015, the CombiMatrix board of directors held a meeting with representatives of CombiMatrix s senior management and CombiMatrix s then outside legal counsel Dorsey & Whitney LLP, or Dorsey, at which the CombiMatrix board of directors began evaluating the alternative benefits and risks between raising additional capital to meet CombiMatrix s future needs and exploring possible partnerships or strategic transactions.

On November 23, 2015, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management and CombiMatrix s then outside legal counsel Dorsey, at which CombiMatrix s management reported on various potential opportunities for strategic alternatives that they had researched and discussed the feasibility of raising additional capital. The CombiMatrix board of directors authorized CombiMatrix s management to select and engage an investment bank to assist in pursuing an underwritten registered public offering of common stock to raise additional capital while also authorizing CombiMatrix s management in parallel to seek and vet all opportunities for potential partnerships or strategic transactions.

On December 2, 2015, the CombiMatrix board of directors adopted the CombiMatrix Transaction Bonus Plan as a form of retention for senior management to actively assist in exploring a strategic transaction, and to motivate and align the participants interest in negotiating for and maximizing stockholder value for a strategic transaction.

In January 2016, CombiMatrix s management engaged in initial high level discussions with Party O regarding potential partnership opportunities or a strategic transaction.

In January 2016, CombiMatrix s management engaged in initial high level discussions with Party G regarding a potential partnership or strategic transaction. Additional discussions occurred in April and May 2016.

On February 12, 2016, CombiMatrix s management had an initial meeting with Party A and continued to discuss a potential strategic transaction with Party A over the course of the following month. On April 11, 2016, CombiMatrix received a draft term sheet letter from Party A for a proposed stock-for-stock acquisition for approximately \$15 million. CombiMatrix s management had multiple synergy meetings and calls with Party A in March and April 2016.

In February 2016, CombiMatrix s management engaged in initial high level discussions with the chief executive officer of Party D regarding a potential partnership or strategic transaction.

In February 2016, CombiMatrix s management engaged in initial high level discussions with Party C regarding a potential partnership or strategic transaction.

In late March 2016, CombiMatrix s management began discussions and held a due diligence meeting with Party B regarding a possible partnership or strategic transaction. Discussions regarding a potential commercial partnership with Party B continued throughout the process.

In April 2016, CombiMatrix s management engaged in initial high level discussions with Party F regarding a potential partnership or strategic transaction.

In April 2016, CombiMatrix s management engaged in initial high level discussions with Invitae s President and Chief Operating Officer at the time (now Invitae s President and Chief Executive Officer) regarding a potential partnership or strategic transaction.

In May 2016, CombiMatrix s management engaged in initial high level discussions with Party E regarding a potential partnership or strategic transaction, followed by an in-person meeting on June 5, 2016.

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None of these eight companies, including Invitae, showed interest in a possible strategic transaction at the time CombiMatrix s management initially had contacted them. Given the muted responses, CombiMatrix s management considered the possibility of engaging an investment bank to assist with establishing a competitive process for exploring potential partnerships or strategic transactions.

In early April 2016, CombiMatrix s management had been in contact with several investment banks to discuss a potential engagement for exploring possible strategic transactions or other business development opportunities.

On April 5, 2016, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management and CombiMatrix s then outside legal counsel Dorsey, at which CombiMatrix s senior management provided an update on the status of strategic discussions with Party A, Party B, Party C, Party D, Party E, Party F, Party G and Party O, and discussed the benefits of possibly engaging an investment bank to assist with establishing a competitive process for exploring potential partnerships or strategic transactions. The CombiMatrix board of directors authorized CombiMatrix s management to select and retain an investment bank for the purposes of exploring such possible strategic alternatives, including the potential sale of CombiMatrix.

Shortly after the CombiMatrix board of directors meeting on April 5, 2016, CombiMatrix s management selected Torreya to serve as CombiMatrix s financial advisor based upon its reputation and experience with respect to the life sciences industry generally. CombiMatrix s management and Torreya negotiated the terms of the prospective engagement and, on April 20, 2016, CombiMatrix entered into a written engagement letter with Torreya to assist CombiMatrix in exploring strategic alternatives.

On April 21, 2016, the CombiMatrix board of directors held a meeting with representatives of CombiMatrix s senior management, CombiMatrix s then outside legal counsel Dorsey, and Torreya, at which CombiMatrix s senior management provided an update on the status of strategic discussions with Party A, Party B, Party C, Party D, Party E, Party F, Party G, Party O and Invitae. Torreya presented an outline of its plan to run a broad sale process for CombiMatrix and laid out a number of potential buyers and a preliminary timeline. Following the board meeting, CombiMatrix s senior management, with the help of representatives of Torreya, and pursuant to the authorization of the CombiMatrix board of directors granted at its April 5, 2016 meeting, began to explore strategic alternatives, including potential investment and/or partnering activities with a strategic partner or the potential sale of CombiMatrix.

Between May 4, 2016 and September 24, 2016, representatives of Torreya canvassed approximately 100 parties to gauge interest in potential partnerships or strategic transactions, and circulated a form confidentiality agreement. Torreya contacted both financial buyers and strategic buyers during the initial phase of the process; however, the initial phase was acutely focused on strategic interest given the latest strategic discussions at CombiMatrix.

On May 6, 2016, CombiMatrix entered into a confidentiality agreement with Party G. The confidentiality agreement included a standstill provision, but permitted Party G to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On May 9, 2016, CombiMatrix entered into a confidentiality agreement with Party D. The confidentiality agreement included a standstill provision, but permitted Party D to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On May 9, 2016, CombiMatrix entered into a confidentiality agreement with Party H. The confidentiality agreement included a standstill provision, but permitted Party H to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On May 11, 2016, CombiMatrix entered into a confidentiality agreement with Invitae. The confidentiality agreement included a standstill provision, but permitted Invitae to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

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On May 19, 2016, CombiMatrix entered into a confidentiality agreement with Party C. The confidentiality agreement included a standstill provision, but permitted Party C to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On May 24, 2016, CombiMatrix entered into a confidentiality agreement with Party F. The confidentiality agreement included a standstill provision, but permitted Party F to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On May 27, 2016, CombiMatrix entered into a confidentiality agreement with Party B. The confidentiality agreement included a standstill provision, but permitted Party B to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On May 28, 2016, CombiMatrix entered into a confidentiality agreement with Party E. The confidentiality agreement included a standstill provision, but permitted Party E to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On May 28, 2016, Party D indicated that it was declining to continue in the sale process due to its need to focus on cleaning up its capital structure.

From June 2016 to September 2016, CombiMatrix s senior management held several meetings and telephonic conferences with interested parties, which included Party F, Party G, Invitae, Party B and Party I.

On June 1, 2016, CombiMatrix entered into a confidentiality agreement with Party A. The confidentiality agreement included a standstill provision, but permitted Party A to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

During the week ended June 3, 2016, Torreya sent a process letter to all interested parties requesting them to submit bids for CombiMatrix by June 15, 2016.

On June 6, 2016, CombiMatrix entered into a confidentiality agreement with Party J. The confidentiality agreement included a standstill provision, but permitted Party J to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On June 15, 2016, Party B submitted an all-cash preliminary Indication of Interest, or IOI, providing a valuation range between \$10 and \$20 million.

On June 15, 2016, Party F submitted a preliminary IOI all-cash offer for \$18 million.

On June 15, 2016, Party H submitted a preliminary IOI contemplating a reverse merger at a 90% Party H 10% CombiMatrix equity ownership split. The CombiMatrix board of directors did not view the offer as viable given the potential need for additional capital infusion that presented closing risk.

On June 16, 2016, the CombiMatrix board of directors held a meeting with representatives of CombiMatrix s senior management, CombiMatrix s then outside legal counsel Dorsey, and Torreya, to discuss the bids received to date, the remaining interested parties and likely bidders, as well as a general status update on the parties contacted and responses received. The CombiMatrix board of directors authorized that all bidders be allowed into the next round of the process and be granted further access to information in the Virtual Data Room, except for Party E due to concerns about competitive harm and Party H because its offer was not viewed as a serious one.

On June 17, 2016, Party E submitted a first round proposal of \$5 million of which \$1 million would be placed in an escrow holdback.

On June 19, 2016, both Party C and Party J indicated they were declining to continue in the sale process.

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On June 24, 2016, Party G submitted an offer for a reverse merger at a 67% Party G 33% CombiMatrix equity ownership split. The CombiMatrix board of directors did not view the offer as viable given the potential need for additional capital infusion that presented closing risk.

During the week ended June 24, 2016, a representative from Torreya spoke with Party H and Party E, and advised them their offers were not sufficient to enable them to continue into the second round of the process.

On June 30, 2016, Party I illustrated a proposed buyout structure in which Party I would acquire CombiMatrix for a de minimis upfront consideration. A representative from Torreya advised Party I that this upfront consideration would need to move up significantly in order to be considered by CombiMatrix.

On July 5, 2016, Party F provided a letter of intent requesting exclusivity, but maintained the pricing of \$18 million in the form of an all-cash transaction.

On July 5, 2016, Invitae provided a preliminary IOI for a stock-for-stock merger valued at two times CombiMatrix s stated 2015 revenues as disclosed in its most recent Form 10-K, or approximately \$20.2 million.

On July 6, 2016, CombiMatrix s management held a telephonic meeting with Party F to discuss the complexities of its capitalization table, more specifically the impact of the Series F warrants on potential transaction structures.

On July 6, 2016, Party A declined to continue in the sale process because it was unwilling to engage in a competitive process.

On July 13, 2016, CombiMatrix s management held a telephonic meeting with Party B to discuss its business and financial forecast, as well as additional business-related questions and the impacts of the challenging capitalization table.

On July 14, 2016, Party F responded to CombiMatrix s request to amend the structure of its offer to include both stock and cash components, however Party F was unable to adjust its initial offer and maintained its position with an \$18 million all-cash offer.

On July 23, 2016, CombiMatrix entered into a confidentiality agreement with Party K. The confidentiality agreement included a standstill provision, but permitted Party K to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On July 25, 2016, Party G submitted a revised offer for a reverse merger at a 52.5% Party G 47.5% CombiMatrix equity ownership split. The CombiMatrix board of directors did not view the offer as viable given the potential need for additional capital infusion that presented closing risk.

During the week ended August 5, 2016, Party B advised it declined to further participate in the sale process.

On August 10, 2016, CombiMatrix s management held an all-day onsite meeting at their offices in Irvine, California with Party G.

On August 16, 2016, CombiMatrix s management held an all-day meeting at their offices in Irvine, California with Invitae.

On August 19, 2016, CombiMatrix s senior management sent an email to the CombiMatrix board of directors providing an update on the process, including where the process stood with Invitae. CombiMatrix s management reported that there were a number of moving parts that needed to transpire ahead of receiving an updated offer, and a potential path forward with Invitae was thus uncertain. Party G and Party F were also still active in the process at that time.

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During the week ended August 19, 2016, a representative from Torreya indicated to a senior executive at Party F that CombiMatrix would prefer a cash and stock transaction. Torreya added that CombiMatrix would require a revised proposal with additional consideration in order to consider exclusivity with Party F.

During the week ended August 26, 2016, Invitae s President and Chief Operating Officer at the time (now Invitae s President and Chief Executive Officer) contacted CombiMatrix s chief executive officer and indicated Invitae declined to further participate in the sale process because it was going to focus on other priorities. Both CombiMatrix s management and representatives from Torreya contacted several parties who had previously been contacted throughout the process across varied stages of stated interest to hone in on the remaining prospective buyers.

During the week ended September 9, 2016, Party L s chief executive officer notified CombiMatrix s management that it was not in a position to bid for CombiMatrix at the time. A representative from Torreya contacted Party F and asked if it would move forward for \$19 million with exclusivity. Party F s senior executive said he would respond after communicating internally. A representative for Party G contacted Torreya and indicated it was not able to put together a revised bid and declined to further participate in the sale process at that time because Party G needed to refocus on executing its near-term business plan.

During the week ended September 16, 2016, Invitae s then President and Chief Operating Officer at the time (now Invitae s President and Chief Executive Officer) confirmed to Torreya that Invitae was not in a position to move forward in the process at that time. Party F s senior executive informed a representative from Torreya that Party F declined to further participate in the sale process at that time due to a lack of internal support for a transaction.

During the week ended September 23, 2016, all other interested parties who had put forward IOIs had declined to further participate in the sale process. Torreya presented CombiMatrix s management additional strategic options on how to move forward in the process, including broadening the call list to additional potential strategic and financial buyers and raising private debt to finance business operations.

From late September 2016 to January 2017, representatives at Torreya contacted approximately 45 additional potential financial buyers, of which approximately 10 entered into confidentiality agreements that included standstill provisions, but permitted such potential financial buyers to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On October 12, 2016, CombiMatrix entered into a confidentiality agreement with Party M. The confidentiality agreement included a standstill provision, but permitted Party M to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

During the week ended October 21, 2016, CombiMatrix s management held telephonic conferences with Party N and Party O. Shortly after the call, Party N indicated it declined to further participate in the sale process.

On October 27, 2016, CombiMatrix entered into a confidentiality agreement with Party P. The confidentiality agreement included a standstill provision, but permitted Party P to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On October 28, 2016, CombiMatrix entered into a confidentiality agreement with Party Q. The confidentiality agreement included a standstill provision, but permitted Party Q to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On November 4, 2016, CombiMatrix entered into confidentiality agreements with Party R, Party S, Party T, Party U, and Party V. The confidentiality agreements included a standstill provision, but permitted such companies to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

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During the week ended November 4, 2016, CombiMatrix s management held a telephonic conference with Party P.

During the week ended November 11, 2016, CombiMatrix entered into a confidentiality agreement with Party W. The confidentiality agreement included a standstill provision, but permitted Party W to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

During the week ended November 18, 2016, CombiMatrix entered into confidentiality agreements with Party X and Party Y. The confidentiality agreements included a standstill provision, but permitted the companies to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period. CombiMatrix management held telephonic conferences with Party X and Party M. Party Q indicated it declined to further participate in the sale process.

During the week ended November 25, 2016, CombiMatrix s management held a telephonic conference with Party U, a private equity firm.

During the week ended December 2, 2016, CombiMatrix entered into a confidentiality agreement with Party Z. The confidentiality agreement included a standstill provision, but permitted Party Z to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period. CombiMatrix management held a telephonic conference with Party S. Party P and Party O both indicated they declined to further participate in the sale process.

During the week ended December 9, 2016, CombiMatrix management held telephonic conferences with Party Y, Party S and Party U. Party X indicated it declined to further participate in the sale process.

On December 10, 2016, CombiMatrix entered into a confidentiality agreement with Party L. The confidentiality agreement included a standstill provision, but permitted Party L to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On December 13, 2016, CombiMatrix entered into a confidentiality agreement with Party AA. The confidentiality agreement included a standstill provision, but permitted Party AA to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

During the week ended December 16, 2016 CombiMatrix s management hosted a site visit at their headquarters in Irvine, California with Party U and its portfolio company, Party UP. Party S and Party Y indicated they declined to further participate in the sale process.

During the week ended December 23, 2016, Party L spoke with a representative of Torreya and asked to speak to CombiMatrix s management at the JP Morgan conference in January 2017. Party F indicated for the final time that there was no interest internally in re-engaging in the sale process.

During the week ended January 6, 2017, a representative from Torreya contacted Invitae and Party B, asking if they would be interested in re-engaging in the sale process. Party Z indicated that it would be able to put together a bid only in the third week of January 2017, shortly after the JP Morgan conference.

During the week ended January 13, 2017, CombiMatrix s management met informally with Party B and Party L at the JP Morgan conference in San Francisco, California.

During the week ended January 20, 2017, Party Z indicated it would no longer continue in the sale process.

On January 23, 2017, Party U provided a preliminary IOI outlining an all-cash acquisition of CombiMatrix at a \$13.5 million valuation. Torreya advised CombiMatrix s management that in order to maximize the implied

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value to stockholders for a transaction with Party U, CombiMatrix could sell off the business in two separate transactions, with an asset sale to Party U in the first step followed by a sale of the remaining public company shell in a second step.

On January 26, 2017 CombiMatrix s management held a telephonic conference with Party U to discuss the offer and legal implications. In addition, a financial advisor for Party BB contacted a representative of Torreya and indicated Party BB was interested in acquiring a public company shell as a method to go public.

On January 27, 2017 CombiMatrix s management held a telephonic conference with Party BB to discuss the concept and structure of a sale of a public company shell.

On January 27, 2017, Party U provided a revised preliminary IOI outlining an all-cash acquisition of CombiMatrix at a \$15.0 million valuation.

On January 31, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management, CombiMatrix s current outside legal counsel Stradling Yocca Carlson & Rauth, P.C., or Stradling, and Torreya. Torreya provided an update on the process and the current field of bidders. Torreya advised that CombiMatrix make a counter-offer to Party U in tandem with a pending offer from Party BB so that the clearing price of the consolidated transaction would net the stockholders at least \$20 million of cash consideration. In addition, Torreya reported on the latest discussions and next steps with Party CC, Party DD, Party BB and Party L. The CombiMatrix board of directors instructed Torreya to send Party L a draft Letter of Intent to begin conversations on a stock-for-stock merger and make a counter-offer to Party U in an effort to reach at least \$20 million of cash consideration.

On February 1, 2017, CombiMatrix entered into a confidentiality agreement with Party DD. The confidentiality agreement included a standstill provision, but permitted Party DD to privately and confidentially explore a possible strategic transaction with CombiMatrix during the standstill period.

On February 3, 2017, due to the muted responses from potential buyers and with guidance from the CombiMatrix board of directors, CombiMatrix s management suspended the sale process with Torreya, but continued to explore on its own strategic options including a range of potential strategic transactions and business development opportunities. CombiMatrix s management indicated to Torreya, however, that it would need Torreya s continued support, including fairness opinion services, as CombiMatrix explored potential strategic transactions on its own. CombiMatrix negotiated with Torreya the amendment of the fee terms of the engagement letter. On February 9, 2017, CombiMatrix and Torreya amended the fee terms of their engagement letter pursuant to the agreed upon tail arrangement that if a strategic transaction resulted from a contact CombiMatrix s management initiated and asked Torreya to assist on, including providing fairness opinion services, Torreya would receive a flat fee instead of success fee compensation calculation based on a percentage of the transaction value.

On February 6, 2017, Party BB provided a preliminary IOI outlining an upfront cash consideration of \$1.3 million for the public company shell and 0.5% of the pro-forma equity ownership. Party BB s offer to buy the public company shell, however, was moot because Party U s offer was below what the CombiMatrix board of directors thought would be appropriate. Discussions with Party DD and Party L also ended.

On February 13, 2017, Party CC, a privately-held company, submitted an offer for a reverse merger at 83.3% Party CC 16.7% CombiMatrix equity ownership split, but that required CombiMatrix to find a way to extinguish the Series F warrants through a CombiMatrix exchange offer or eliminate their Black-Scholes buyback provision. The CombiMatrix board of directors did not view the offer as viable given the potential need for additional capital infusion

that presented closing risk.

On February 17, 2017, Party CC s chief executive officer made a presentation to the CombiMatrix board of directors regarding Party CC s business and prospects.

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On February 23, 2017, Invitae re-engaged to explore the possibility of restarting strategic discussions with CombiMatrix when its President and Chief Executive Officer called CombiMatrix s President and Chief Executive Officer.

On March 6, 2017, Party CC submitted a revised offer for a reverse merger at 77.8% Party CC 22.2% CombiMatrix equity ownership split, but that required CombiMatrix to find a way to extinguish the Series F warrants through a CombiMatrix exchange offer or to eliminate the Black-Scholes buyback provision contained in such Series F warrants. The CombiMatrix board of directors did not view the offer as viable given the potential need for additional capital infusion that presented closing risk.

On March 10, 2017, Invitae indicated it was preparing to submit a proposal for a potential stock-for-stock merger valuing CombiMatrix at two times 2016 revenue as disclosed in its most recent form 10-K filing, or approximately \$25.7 million.

On March 14, 2017, Invitae submitted a preliminary IOI for a stock-for-stock merger valuing CombiMatrix at two times 2016 revenue as disclosed in its most recent form 10-K filing, or approximately \$25.7 million.

On March 15, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management, Stradling, and Torreya. Torreya provided an analysis and guidance on the current bids from Party CC and Invitae. Torreya advised the CombiMatrix board of directors that the reverse merger opportunity with Party CC was a less attractive value proposition to its stockholders. After consideration of all relevant factors, the CombiMatrix board of directors determined that Invitae s proposal stood to maximize shareholder value because, among other factors: the total consideration offered by Invitae was higher in management s and the board of directors view; in Party CC s offer, CombiMatrix s stockholders would receive a low percentage of the combined entity in a reverse merger and historically reverse mergers have not traded well; unlike Party CC s offer, Invitae s offer would not trigger the Black-Scholes buyout provision of CombiMatrix s Series F warrants and therefore would result in a higher amount of consideration being received by CombiMatrix s stockholders; there were greater synergies between Invitae s business and CombiMatrix s business, presenting better opportunities for post-merger growth; and Party CC was a pre-revenue startup in a different industry space, and the post-merger performance of the combined company would be uncertain. Torreya advised the CombiMatrix board of directors that it should make a counter-offer to Invitae.

On March 20, 2017, Invitae submitted a revised preliminary IOI for a stock-for-stock merger valuing CombiMatrix between \$25 million and \$30 million plus working capital to be defined.

On March 21, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management, Stradling, and Torreya. Torreya presented a valuation analysis of CombiMatrix by analyzing recent comparable transactions, comparable public companies and discounted cash flow valuation methodologies, as well as how Invitae s latest offer fit relative to CombiMatrix s implied valuation. Based on input from Torreya, the CombiMatrix board of directors directed CombiMatrix s management to counter Invitae with a valuation range of \$28 million to \$33 million plus working capital to be defined.

On March 21, 2017, Invitae submitted a revised preliminary IOI for a stock-for-stock merger valuing CombiMatrix between \$28 million and \$33 million plus working capital to be defined. CombiMatrix executed the IOI and sent it back to Invitae starting a period of exclusivity expiring April 14, 2017.

On March 24, 2017, CombiMatrix s management and members of the CombiMatrix board of directors hosted a site visit at their headquarters in Irvine, California with Invitae. A representative of Torreya notified Party CC that

CombiMatrix had moved into a period of exclusivity with another party and thus would not be moving forward with Party CC s offer at this time.

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On April 8, 2017, CombiMatrix s management sent an email to the CombiMatrix board of directors notifying them of CombiMatrix s first quarter financial results and updating them on the continuing Merger negotiations with Invitae.

From early April 2017 through late May 2017, Invitae and CombiMatrix exchanged several iterations and markups of a revised IOI and respective illustrative transaction terms until the summary of terms was orally agreed upon and an initial draft of the Merger Agreement was provided by Invitae on May 23, 2017. Also during this period Invitae, Invitae s outside legal counsel Pillsbury Winthrop Shaw Pittman LLP, or Pillsbury, CombiMatrix, Stradling, and other advisors continued to engage in diligence review, as well as exchanged comments on the draft IOI.

On April 13, 2017, Invitae submitted a proposal modifying the IOI that the parties had executed on March 21, 2017, or the Proposal. The Proposal indicated a purchase price for CombiMatrix of \$30 million, plus or minus net cash (defined broadly as current assets minus total liabilities at closing) to be paid in common stock of Invitae and calculated on a fully diluted basis of CombiMatrix securities, inclusive of outstanding Series F warrants.

On April 14, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management and Stradling, to consider the new Proposal submitted by Invitae, which management estimated would translate into net consideration to CombiMatrix common stockholders of approximately \$6.10 per share (based on Invitae s then-current common stock price), or approximately \$17.8 million, taking into account the net cash formula in the Proposal and CombiMatrix s share count on a fully diluted basis. The CombiMatrix board of directors directed CombiMatrix s management to make a counterproposal that the fully diluted shares calculation exclude the outstanding Series F warrants.

On April 18, 2017, Invitae rejected CombiMatrix s counter-proposal to exclude the Series F warrants from the fully-diluted calculation of the proposed purchase price. The parties discussed alternative solutions to Invitae s concerns surrounding the Series F warrants and Invitae indicated that it would be open to the possibility of conducting a concurrent tender offer of Invitae common stock for the Series F warrants.

Later on April 18, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management and Stradling, in which the CombiMatrix board of directors approved the proposed solution of Invitae making a concurrent tender offer of Invitae common stock for the Series F warrants.

On April 22, 2017, Invitae submitted a revised Proposal that indicated a purchase price for CombiMatrix of \$33 million, plus or minus net cash, and included a concurrent tender offer of Invitae common stock for the Series F warrants at a value of \$2.90 per warrant, but contained a cap on the purchase price (regardless of how much net cash would be increased by any warrant exercises). CombiMatrix s management estimated that the Proposal would approximate \$8.37 per share of CombiMatrix common stock if no Series F warrants were exercised and \$7.33 per share of CombiMatrix common stock if all of the Series F warrants were exercised.

On April 28, 2017, the CombiMatrix board of directors held a meeting with representatives of CombiMatrix s senior management and Stradling, in which it authorized management to continue discussions with Invitae. Because the exclusivity period with Invitae had expired on April 14, 2017, the CombiMatrix board of directors further authorized CombiMatrix s senior management to explore any other strategic alternatives that may become available.

During the week of May 1, 2017, CombiMatrix s chief executive officer contacted Party U to gauge its interest in revisiting the possible strategic transaction, but Party U expressed no interest in engaging in a bidding war for a strategic transaction.

On May 5, 2017, Invitae submitted a further revised Proposal that indicated a purchase price for CombiMatrix of \$25 million, plus or minus net cash, but without a cap, to be paid in common stock of Invitae and calculated on a

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fully diluted basis of CombiMatrix securities, but excluding outstanding Series D Warrants and also excluding any Series F warrants tendered in a tender exchange offer. Under the tender offer, Invitae would make a supplemental offer of \$2.90 per Series F warrant (approximately an additional \$6 million based on Invitae s then-current common stock price). The purchase price would be subject to a floor of \$7.00 per share of common stock (based on Invitae s then-current common stock price) regardless of how much dilution may occur if Series F warrants are exercised. The revised Proposal also required that the transaction bonus pursuant to CombiMatrix s Transaction Bonus Plan be paid with restricted stock units for Invitae common stock despite the fact that the transaction bonus is payable in cash pursuant to the terms of the Transaction Bonus Plan.

On May 8, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management, Stradling, and Torreya. Torreya presented an updated valuation analysis of CombiMatrix by analyzing recent comparable transactions, comparable public companies and discounted cash flow valuation methodologies, along with a sensitivity analysis of Series F warrants tender versus exercise, as well as how Invitae s latest offer fit relative to CombiMatrix s implied valuation. Based on input from Torreya, the CombiMatrix board of directors directed CombiMatrix s management to make a counteroffer to Invitae for a \$27 million purchase price for the CombiMatrix common stock (subject to the net cash adjustment) and a floor of \$8.25 per share of CombiMatrix common stock (based on Invitae s then-current common stock price), or approximately \$42 million if all the Series F warrants exercised prior to closing the Merger.

On May 11, 2017, CombiMatrix received an unsolicited IOI by Party K for a reverse merger at a range between 75-81% Party K 19-25% CombiMatrix equity ownership split. The CombiMatrix board of directors did not view the offer as viable given the potential need for additional capital infusion that presented closing risk.

On May 12, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management, Stradling, and Torreya. Torreya provided guidance on the IOI received from Party K and concluded that given the historical risk profile of Party K and its current capitalization, Invitae s offer reflected a superior value proposal for CombiMatrix s stockholders. However, Torreya also advised that CombiMatrix make a counter proposal back to Party K. Based on input from Torreya, the CombiMatrix board of directors directed CombiMatrix s management to counter Party K with a \$45 million all-cash offer plus a cash buyout of the Series F warrants (based upon the maximum value of the Invitae Proposal being approximately \$42 million if all the Series F warrants are exercised prior to closing the Merger), with proof of funds and ability to close within 30 days, and with no exclusivity.

On May 16, 2017, CombiMatrix s chief executive officer contacted the chief executive officer of Party K and presented the all-cash counterproposal, which Party K ultimately rejected later that week.

From late May 2017 through late July 2017, Invitae and CombiMatrix exchanged several iterations and markups of the draft Merger Agreement until terms were fully agreed upon and the Merger Agreement was signed on July 31, 2017. Also during this period Invitae, Pillsbury, CombiMatrix, Stradling, and other advisors continued to engage in diligence review, as well as exchanged comments on the draft Merger Agreement.

On June 9, 2017, the CombiMatrix board of directors held a telephonic meeting with representatives of CombiMatrix s senior management and Stradling, and discussed the terms of an interim draft of the Merger Agreement. The CombiMatrix board of directors directed CombiMatrix s management to negotiate with Invitae to, among other things, reduce the termination fee and expense reimbursement in the Merger Agreement from \$2,000,000 and \$500,000, respectively, down to \$1,000,000 and \$300,000, respectively. Later on June 9, 2017, CombiMatrix s management made a counter-offer to Invitae with a termination fee and expense reimbursement of \$1,000,000 and \$300,000, respectively.

On June 27, 2017, Invitae agreed to a termination fee and expense reimbursement in the Merger Agreement of \$1,400,000 and \$400,000, respectively, and on July 18, 2017, Invitae agreed that the termination fee would be reduced by any amount of expense reimbursement already paid.

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On July 14, 2017, the CombiMatrix board of directors held a meeting with representatives of CombiMatrix s senior management, Stradling, and Torreya to discuss an interim draft of the Merger Agreement. The CombiMatrix board of directors directed CombiMatrix s management to request that Invitae consider shifting a certain amount of Merger consideration from the Series F warrant exchange tender offer to the CombiMatrix common stockholders.

On July 15, 2017, CombiMatrix s chief executive officer contacted Invitae s chief executive officer to request that Invitae consider shifting a certain amount of Merger consideration from the Series F warrant exchange tender offer to the CombiMatrix common stockholders. Invitae s chief executive officer indicated that Invitae was unwilling to shift the consideration between common stockholders and Series F warrant holders.

On July 21, 2017, Invitae opened a discussion with CombiMatrix s senior management regarding their continued work for CombiMatrix post-Merger and provided an initial draft of consulting agreements for them.

On July 28, 2017, the CombiMatrix board of directors met telephonically, with representatives of CombiMatrix s senior management, Torreya and Stradling present, to consider the proposed transaction with Invitae. At the meeting, the CombiMatrix board of directors reviewed the key provisions of the near-final draft of the Merger Agreement and ancillary agreements, including structure and timing considerations, the exchange ratio, closing conditions, treatment of stock options, restricted stock units and warrants, the termination provisions and termination fees and circumstances under which the payment of termination fees would be triggered. The CombiMatrix board of directors was made aware of the consulting arrangements that Invitae was offering to CombiMatrix s chief executive officer and chief financial officer and of their respective financial interests in those arrangements.

During that meeting on July 28, 2017, representatives of Torreya delivered to the CombiMatrix board of directors its oral opinion, which was confirmed by delivery of a written opinion dated July 28, 2017, to the effect that, as of such date and based upon and subject to the assumptions made, matters considered and limits on the review undertaken by Torreya in preparing the opinion, the consideration to be paid in the Merger and in the proposed Offer was fair, from a financial point of view, to CombiMatrix s common stockholders. The CombiMatrix board of directors directed CombiMatrix s management to further negotiate the termination fee provision in the Merger Agreement so that the termination fee would not be triggered solely by an unsolicited bid.

Between July 28, 2017 and July 30, 2017, Invitae, Pillsbury, CombiMatrix, Stradling, and other advisors had continued discussions on the terms of the Merger Agreement.

On July 30, 2017, the CombiMatrix board of directors met telephonically, with representatives of CombiMatrix s senior management, Torreya and Stradling present, to consider the proposed transaction with Invitae. At the meeting, the CombiMatrix board of directors reviewed the revisions made to the near-final draft of the Merger Agreement and ancillary agreements since the versions of July 28, 2017, including Invitae s agreement that the termination fee would not be triggered solely by an unsolicited bid.

During that meeting on July 30, 2017, representatives of Torreya delivered to the CombiMatrix board of directors its oral opinion, which was confirmed by delivery of a written opinion dated July 30, 2017, to the effect that, as of such date and based upon and subject to the assumptions made, matters considered and limits on the review undertaken by Torreya in preparing the opinion, the consideration to be paid in the Merger and in the proposed Offer was fair, from a financial point of view, to CombiMatrix s common stockholders.

On July 31, 2017, the parties finalized the Merger Agreement and the Merger Agreement was executed.

On July 31, 2017, after the closing of the markets in the United States, CombiMatrix and Invitae announced the Transaction through separate press releases.

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## Invitae s Reasons for the Merger and the Offer

The Invitae board of directors concluded that the Merger Agreement, the Merger, the stock issuance in connection therewith and the other transaction documents, and the transactions contemplated thereby or undertaken in connection therewith, including the Offer, are advisable and in the best interests of Invitae and its stockholders and, accordingly, approved the Merger Agreement, the Merger, the stock issuance in connection therewith and the other transaction documents, and the transactions contemplated thereby or undertaken in connection therewith, including the Offer. In evaluating the transactions, the Invitae board of directors consulted with Invitae s management and legal advisors, and considered the following material factors that the Invitae board of directors believes favor the transactions:

the transactions would not preclude Invitae from entering into possible future business combination transactions,

the Invitae board of directors belief that the Merger Exchange Ratio added certainty to the proposed transactions without subjecting Invitae stockholders to the possibility of excessive dilution,

the requirement that participation in the Offer by at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement is a condition to Invitae s obligation to proceed with a closing of the Merger,

the fact that CombiMatrix may be required, under certain circumstances, to pay a termination fee to Invitae of \$1,400,000 (net of expense reimbursement previously paid) and/or Invitae s expenses up to \$400,000, and

the terms of the Merger Agreement, as described in the section entitled *The Merger Agreement* below, which the Invitae board of directors generally viewed as favorable to Invitae.

In the course of its deliberations regarding the transactions, the Invitae board of directors also identified and considered the following potentially negative factors:

the potential disruption to Invitae s business that could result from the announcement of the transactions, including the diversion of management and employee attention, employee attrition and the effect on business and customer relationships,

the effect of the public announcement of the transactions on Invitae s stock price if Invitae stockholders or CombiMatrix stockholders do not view the Merger positively,

the possibility that the transactions might not be completed due to difficulties in satisfying the conditions to the Merger or the occurrence of a material adverse effect on either company s business,

the risks and costs to Invitae if the transactions do not close, and the potential effect of the resulting public announcement of termination of the Merger Agreement on, among other things, the market price for Invitae common stock, its operating results, its ability to attract and retain key personnel and its ability to complete an alternative transaction,

the fact that Invitae may be required, under certain circumstances, to pay CombiMatrix s expenses up to \$400,000, and

the fact that, subject to compliance with certain obligations under the Merger Agreement, the CombiMatrix board of directors is permitted to change its recommendation to the CombiMatrix stockholders and the CombiMatrix stockholders may fail to approve the Merger Proposal; in addition, the CombiMatrix board of directors may explore and respond to an alternative transaction proposed by a third party that it concludes constitutes, or could reasonably be expected to constitute, a superior proposal.

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The foregoing discussion of the information and factors considered by the Invitae board of directors is not intended to be exhaustive, but includes the material factors considered by the Invitae board of directors. In view of the variety of factors considered in connection with its evaluation of the Merger Agreement, the issuance of shares in the Merger and the other transactions contemplated by the Merger Agreement and other transaction documents, the Invitae board of directors did not find it practicable to, and did not, quantify or otherwise assign specific weights to the factors considered in reaching its determination and recommendation. In addition, each of the members of the Invitae board of directors may have given differing weights to different factors. On balance, the Invitae board of directors believed that the positive factors discussed above outweighed the negative factors discussed above.

## THE OFFER

Invitae is offering to exchange each outstanding CombiMatrix Series F warrant for shares of Invitae common stock, subject to the conditions contained in this document and the accompanying letter of transmittal. As of September 26, 2017, there were outstanding Series F warrants held by public warrant holders to acquire a total of 2,066,976 shares of CombiMatrix common stock at an exercise price of \$5.17 per share, which were originally issued pursuant to common stock purchase warrants as part of an underwritten public offering by CombiMatrix that closed on March 24, 2016.

Pursuant to the Merger Agreement, the successful completion of the Offer, including the satisfaction of the condition to the Offer that at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement shall have been validly tendered and not withdrawn prior to the expiration of the Offer, is a precondition to Invitae s obligation to consummate the Merger. Promptly after completion of the Offer, Invitae intends to consummate the Merger, i.e., a merger of Merger Sub with and into CombiMatrix, with CombiMatrix surviving the merger as a wholly owned subsidiary of Invitae. After the Merger, the former CombiMatrix Series F warrant holders will no longer have any direct ownership interest in the surviving corporation. See the sections entitled *Background of the Merger and the Offer* and *The Merger Agreement* for a more detailed description of the events leading up to the proposed Merger and Offer and the terms and conditions of the Merger Agreement.

The CombiMatrix board of directors has unanimously recommended that the CombiMatrix stockholders vote to approve the Merger. The successful completion of the Offer, including the satisfaction of the condition to the Offer that at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement shall have been validly tendered and not withdrawn prior to the expiration of the Offer, is a precondition Invitae s obligation to consummate the Merger. In connection with the completion of the Offer and the Merger, Invitae and CombiMatrix intend to make the appropriate filings to delist the unexchanged CombiMatrix Series F warrants from trading on the NASDAQ Capital Market. The CombiMatrix Series F warrants that are not validly tendered in the Offer, if any, will be assumed by Invitae in accordance with their terms and converted into warrants to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such warrants being adjusted appropriately to reflect the Merger Exchange Ratio. Invitae does not intend to list such warrants for trading on any national stock exchange. See the section entitled *Risk Factors The liquidity of the CombiMatrix Series F warrants that are not exchanged will be reduced*.

However, neither Invitae, the CombiMatrix board of directors, the information agent, nor the exchange agent for the Offer is making any recommendation to you as to whether you should tender or refrain from tendering your CombiMatrix Series F warrants pursuant to the Offer. You must make your own decision as to whether to tender your CombiMatrix Series F warrants and, if so, how many CombiMatrix Series F warrants to tender. In doing so, you should read carefully the information in this document and the related letter of transmittal.

## Consideration

Under the terms of the Offer, each CombiMatrix Series F warrant holder will receive, for each outstanding CombiMatrix Series F warrant to acquire one share of CombiMatrix common stock validly tendered and not properly withdrawn in the Offer, a fraction of a share of Invitae common stock equal to the Warrant Exchange Ratio, which is 0.3056. The Warrant Exchange Ratio was calculated as the quotient (rounded to the nearest ten-thousandth) obtained by dividing \$2.90 by the average closing price for shares of Invitae common stock on the NYSE for the immediately preceding period of 30 trading days prior to the date of the Merger Agreement, or \$9.491, which is referred to in the Merger Agreement as the Invitae Trailing Average Share Value.

In addition, instead of receiving any fractional shares of Invitae common stock to which CombiMatrix Series F warrant holders otherwise would be entitled, tendering CombiMatrix Series F warrant holders will receive a cash payment in lieu of such fractional share equal to the dollar amount (rounded to the nearest whole cent), without

interest, determined by multiplying such fraction by \$9.491. See the section entitled *The Offer Cash Instead of Fractional Shares of Invitae Common Stock* for a description of the treatment of fractional shares.

CombiMatrix Series F warrant holders should obtain current market quotations for shares of Invitae common stock and CombiMatrix Series F warrants before deciding whether to tender pursuant to the Offer. See the section entitled *Comparative Market Prices and Dividends* for sales price data. The value of Invitae common stock will fluctuate prior to the Expiration Date as the market price of Invitae common stock changes. Please also see the section of this document entitled *Risk Factors*.

## Cash Instead of Fractional Shares of Invitae Common Stock

In lieu of any fractional shares of Invitae common stock that otherwise would be issuable pursuant to the Offer, each CombiMatrix Series F warrant holder who would otherwise be entitled to receive a fraction of a share of Invitae common stock pursuant to the Offer will receive a cash payment in lieu of such fractional share equal to the dollar amount (rounded to the nearest whole cent), without interest, determined by multiplying such fraction by \$9.491.

## **Distribution of Offer Materials**

This document, the related letter of transmittal and other relevant materials will be delivered to registered holders of CombiMatrix Series F warrants and to brokers, dealers, commercial banks, trust companies and other nominees whose names appear on CombiMatrix s warrant holder list or, if applicable, who are listed as participants in a clearing agency s security position listing, so that they can in turn send these materials to beneficial owners of CombiMatrix Series F warrants who may hold such warrants in street name.

## **Expiration of the Offer**

The Offer is scheduled to expire at 12:00 midnight, New York City time, on November 13, 2017, which is the Initial Expiration Date, unless further extended by Invitae. Expiration Date means the Initial Expiration Date, unless and until Invitae has extended the period during which the Offer is open, in which event the term Expiration Date means the latest time and date at which the Offer, as so extended by Invitae, will expire.

## **Extension, Termination and Amendment**

Invitae expressly reserves the right to extend the period of time during which the Offer remains open, at any time or from time to time, by giving notice of such extension to the exchange agent. Invitae and CombiMatrix are required under the Merger Agreement to use their commercially reasonable efforts to complete the Offer at or immediately prior to the closing of the Merger (assuming the 90% threshold is met, in the case of Invitae, and the closing is otherwise ready to occur), and Invitae currently intends to exercise its right to extend the Offer period as necessary until all conditions of the Offer, and all conditions of the Merger (other than those conditions related to the completion of the Offer), have been satisfied or waived. During any such extension, all CombiMatrix Series F warrants previously tendered and not withdrawn will remain subject to the Offer, subject to each tendering CombiMatrix Series F warrant holder s right to withdraw its CombiMatrix Series F warrant. CombiMatrix Series F warrant holders should read the discussion under the section entitled *The Offer Withdrawal Rights* for more details.

Subject to the provisions of the Merger Agreement, to the extent legally permissible, Invitae also reserves the right, at any time or from time to time:

to delay acceptance for exchange of any CombiMatrix Series F warrant pursuant to the Offer, or to terminate the Offer and not accept or exchange any CombiMatrix Series F warrants not previously accepted or exchanged, if any of the conditions of the Offer are not satisfied or waived prior to the Expiration Date or to the extent required by applicable laws;

to extend the Offer from time to time if less than 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement have been validly tendered and not withdrawn at the otherwise scheduled Expiration Date;

to waive any condition, other than as described in the section entitled The Offer Conditions of the Offer; and

to otherwise amend the Offer in any respect consistent with the terms of the Merger Agreement. In addition, Invitae may terminate the Offer and not exchange CombiMatrix Series F warrants that were previously tendered even if Invitae has accepted, but not paid for, CombiMatrix Series F warrants in the Offer, if at the Expiration Date the conditions of the Offer described below in the section entitled *The Offer Conditions of the Offer* are not met or waived.

Invitae will effect any extension, termination, amendment or delay by giving oral or written notice to the exchange agent and by making a public announcement as promptly as practicable thereafter. In the case of an extension, any such announcement will be issued no later than 9:00 a.m., New York City time, on the next business day following the previously scheduled Expiration Date. Subject to applicable law (including Rules 14d-4(c) and 14d-6(d) under the Exchange Act, which require that any material change in the information published, sent or given to CombiMatrix Series F warrant holders in connection with the Offer be promptly disseminated to such warrant holders in a manner reasonably designed to inform them of such change) and without limiting the manner in which Invitae may choose to make any public announcement, Invitae assumes no obligation to publish, advertise or otherwise communicate any such public announcement of this type other than by issuing a press release over the news wire.

If Invitae materially changes the terms of the Offer or the information concerning the Offer, or if Invitae waives a material condition of the Offer, Invitae will extend the Offer to the extent legally required under the Exchange Act. If, prior to the Expiration Date, Invitae changes the percentage of CombiMatrix Series F warrants being sought or the consideration offered, that change will apply to all holders whose CombiMatrix Series F warrants are accepted for exchange pursuant to the Offer. If at the time notice of that change is first published, sent or given to CombiMatrix Series F warrant holders, the Offer is scheduled to expire at any time earlier than the tenth business day from and including the date that such notice is first so published, sent or given, Invitae will extend the Offer until the expiration of that ten business day period. For purposes of the Offer, a business day means any day other than a Saturday, Sunday or federal holiday and consists of the time period from 12:01 a.m. through 12:00 midnight, New York City time.

No subsequent offering period will be available after the Offer.

# Exchange of CombiMatrix Series F warrants; Delivery of Shares of Invitae Common Stock and Cash Instead of Fractional Shares

Invitae has retained American Stock Transfer & Trust Company, LLC as the exchange agent for the Offer to handle the exchange of CombiMatrix Series F warrants for the offer consideration.

Upon the terms and subject to the conditions of the Offer (including, if the Offer is extended or amended, the terms and conditions of any such extension or amendment), Invitae will accept for exchange, and will exchange, CombiMatrix Series F warrants validly tendered and not properly withdrawn promptly after the Expiration Date. In all cases, exchanges of CombiMatrix Series F warrants tendered and accepted for exchange pursuant to the Offer will be made only after timely receipt by the exchange agent of certificates for those CombiMatrix Series F warrants, a

properly completed and duly executed letter of transmittal, and any other required documents.

For purposes of the Offer, Invitae will be deemed to have accepted for exchange CombiMatrix Series F warrants validly tendered and not properly withdrawn if and when it notifies the exchange agent of its acceptance of those

CombiMatrix Series F warrants pursuant to the Offer. The exchange agent will deliver any shares of Invitae common stock issuable in exchange for CombiMatrix Series F warrants validly tendered and accepted pursuant to the Offer, and cash instead of any fractional shares of Invitae common stock, promptly after receipt of such notice. The exchange agent will act as the agent for tendering CombiMatrix Series F warrant holders for the purpose of receiving shares of Invitae common stock and cash from Invitae and transmitting such stock and cash to the tendering CombiMatrix Series F warrant holders. CombiMatrix Series F warrant holders will not receive any interest on any cash that Invitae pays in the Offer, even if there is a delay in making the exchange.

If Invitae does not accept any tendered CombiMatrix Series F warrants for exchange pursuant to the terms and conditions of the Offer for any reason, Invitae will return certificates for such unexchanged CombiMatrix Series F warrants without expense to the tendering warrant holder.

## Withdrawal Rights

CombiMatrix Series F warrant holders can withdraw tendered CombiMatrix Series F warrants at any time until the Expiration Date and, if Invitae has not agreed to accept the CombiMatrix Series F warrants for exchange on or prior to November 13, 2017, CombiMatrix Series F warrant holders can thereafter withdraw their CombiMatrix Series F warrants from tender at any time after such date until Invitae accepts CombiMatrix Series F warrants for exchange.

For the withdrawal of CombiMatrix Series F warrants to be effective, the exchange agent must receive a written notice of withdrawal from the CombiMatrix Series F warrant holder at the address set forth on the back cover of this document, prior to the Expiration Date. The notice must include the warrant holder s name, address, social security number, the certificate number(s) of the CombiMatrix Series F warrant(s) to be withdrawn, the number of CombiMatrix Series F warrants to be withdrawn and any other information required pursuant to the Offer.

Invitae will decide all questions as to the form and validity (including time of receipt) of any notice of withdrawal in its sole discretion, and its decision shall be final and binding. None of Invitae, CombiMatrix, the exchange agent, the information agent or any other person is under any duty to give notification of any defects or irregularities in any tender or notice of withdrawal or will incur any liability for failure to give any such notification. Any CombiMatrix Series F warrants properly withdrawn will be deemed not to have been validly tendered for purposes of the Offer. However, a CombiMatrix Series F warrant holder may re-tender withdrawn CombiMatrix Series F warrants by following the applicable procedures discussed under the sections entitled *The Offer Procedure for Tendering* or *The Offer Guaranteed Delivery* at any time prior to the Expiration Date.

# **Procedure for Tendering**

For a registered holder of CombiMatrix Series F warrants to validly tender such warrants pursuant to the Offer:

a properly completed and duly executed letter of transmittal, along with any required signature guarantees and any other documents required by the letter of transmittal, and certificates for tendered CombiMatrix Series F warrants must be received by the exchange agent at the address set forth on the back cover of this document before the Expiration Date; or

the terms and conditions of the guaranteed delivery procedure set forth below under the section entitled *The Offer Guaranteed Delivery* must be met.

For CombiMatrix Series F warrants that are held in street name through a broker, dealer, commercial bank, trust company or other nominee, the warrant holder should contact the broker or other nominee to provide instructions to tender Series F warrants in the Offer within the time period provided by the broker or other nominee. Your broker, dealer, commercial bank, trust company or other nominee may establish a deadline before the expiration of the Offer by which you must provide it with your instructions. Please contact your broker or other nominee for their specific requirements.

Signatures on all letters of transmittal must be guaranteed by an eligible institution, except in cases in which CombiMatrix Series F warrants are tendered either by a registered holder of CombiMatrix Series F warrants who has not completed the box entitled Special Issuance Instructions or the box entitled Special Delivery Instructions on the letter of transmittal or for the account of an eligible institution.

If the certificates for CombiMatrix Series F warrants are registered in the name of a person other than the person who signs the letter of transmittal, or if certificates for unexchanged CombiMatrix Series F warrants are to be issued to a person other than the registered holder(s), the certificates must be endorsed or accompanied by appropriate stock powers, in either case signed exactly as the name or names of the registered owner or owners appear on the certificates, with the signature(s) on the certificates or stock powers guaranteed by an eligible institution.

The method of delivery of CombiMatrix Series F warrant certificates and all other required documents is at the option and risk of the tendering CombiMatrix Series F warrant holder, and delivery will be deemed made only when actually received by the exchange agent. If delivery is by mail, Invitae recommends registered mail with return receipt requested, properly insured. In all cases, CombiMatrix Series F warrant holders should allow sufficient time to ensure timely delivery.

The tender of CombiMatrix Series F warrants pursuant to any of the procedures described above will constitute a binding agreement between Invitae and the tendering CombiMatrix Series F warrant holder upon the terms and subject to the conditions of the Offer.

## **Exchange Agent**

The exchange agent for the Offer is American Stock Transfer & Trust Company, LLC. The address to which letters of transmittal and Series F warrant certificates should be mailed or delivered by overnight courier is provided below and on the back cover of this document. If sent by mail, it is recommended that you send documents by registered mail, properly insured, with return receipt requested, and that you allow a sufficient number of days to ensure delivery to the exchange agent before the Expiration Date. Do not send or deliver these materials to CombiMatrix or Invitae. If you deliver your documents in a manner different than described above, we may not honor your tender.

## AMERICAN STOCK TRANSFER & TRUST COMPANY, LLC

For assistance call (877) 248-6417 or (718) 921-8317

If delivering by hand, express mail, courier,

or other expedited service:

By mail:

American Stock Transfer & Trust Co., LLC

American Stock Transfer & Trust Co., LLC

**Operations Center** 

**Operations Center** 

Attn: Reorganization Department

Attn: Reorganization Department

6201 15th Avenue

P.O. BOX 2042

Brooklyn, New York 11219

New York, NY 10272-2042

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## **Information Agent**

If you have any questions about the Offer or if you need additional copies of this document, you should contact Advantage Proxy, Inc., Invitae s information agent for this Offer:

## ADVANTAGE PROXY, INC.

PO Box 13581

Des Moines, WA 98198

Telephone: (877) 870-8565 (toll free); (206) 870-8565 (collect)

Email: ksmith@advantageproxy.com

# **Lost or Destroyed Certificates**

Registered holders of CombiMatrix Series F warrants whose certificate for part or all of their CombiMatrix Series F warrants has been lost, stolen, misplaced or destroyed may contact BNY Mellon Investor Services, at the address and telephone number set forth below, for instructions as to obtaining a replacement CombiMatrix Series F warrant certificate. That certificate will then be required to be submitted together with the letter of transmittal in order for such CombiMatrix Series F warrants to be validly tendered pursuant to the Offer. The CombiMatrix Series F warrant holder may have to post a bond to secure against the risk that the CombiMatrix Series F warrant certificate may subsequently emerge. CombiMatrix Series F warrant holders whose CombiMatrix Series F warrant certificate has been lost, stolen, misplaced or destroyed should contact BNY Mellon Investor Services immediately in order to permit timely processing of this documentation.

**BNY Mellon Investor Services** 

520 Pike Street, Suite 1220

Seattle, WA 98101

(206) 674-3031

## **Guaranteed Delivery**

CombiMatrix Series F warrant holders desiring to tender CombiMatrix Series F warrants pursuant to the Offer but whose certificates are not immediately available or cannot otherwise be delivered with all other required documents to the exchange agent prior to the Expiration Date may nevertheless tender CombiMatrix Series F warrants, as long as all of the following conditions are satisfied:

the tender is by or through an eligible institution;

a properly completed and duly executed notice of guaranteed delivery, substantially in the form made available by Invitae, is received by the exchange agent as provided below prior to the Expiration Date; and

the certificates for all tendered CombiMatrix Series F warrants, in proper form for transfer, together with a properly completed and duly executed letter of transmittal with any required signature guarantees and all other documents required by the letter of transmittal are received by the exchange agent at the address on the back cover of this document within three NYSE trading days after the date of execution of such notice of guaranteed delivery.

A CombiMatrix Series F warrant holder may deliver the notice of guaranteed delivery by hand, facsimile transmission or mail to the exchange agent at the address on the back cover of this document. The notice must include a guarantee by an eligible institution in the form set forth in the notice.

In all cases, Invitae will exchange CombiMatrix Series F warrants tendered and accepted for exchange pursuant to the Offer only after timely receipt by the exchange agent of certificates for CombiMatrix Series F warrants, a properly completed and duly executed letter of transmittal and any other required documents.

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### **Fees and Commissions**

Registered holders of CombiMatrix Series F warrants who tender directly to the exchange agent will not be obligated to pay any charges or expenses of the exchange agent or any brokerage commissions. CombiMatrix Series F warrant holders who hold their warrants in street name through a broker, dealer, commercial bank, trust company or other nominee should consult that institution as to whether or not such institution will charge the warrant holder any service fees in connection with tendering CombiMatrix Series F warrants pursuant to the Offer. Except as set forth in the instructions to the letter of transmittal, any transfer taxes on the exchange of CombiMatrix Series F warrants pursuant to the Offer will be paid by Invitae.

## **Matters Concerning Validity and Eligibility**

Invitae will determine questions as to the validity, form, eligibility (including time of receipt) and acceptance for exchange of any tender of CombiMatrix Series F warrants in its sole discretion, and its determination shall be final and binding. Invitae reserves the absolute right to reject any and all tenders of CombiMatrix Series F warrants that it determines are not in the proper form or the acceptance of or exchange for which may be unlawful. Invitae also reserves the absolute right to waive any defect or irregularity in the tender of any CombiMatrix Series F warrants. No tender of CombiMatrix Series F warrants will be deemed to have been validly made until all defects and irregularities in tenders of such CombiMatrix Series F warrants have been cured or waived. None of Invitae, CombiMatrix, the information agent, the exchange agent nor any other person will be under any duty to give notification of any defects or irregularities in the tender of any CombiMatrix Series F warrants or will incur any liability for failure to give any such notification. Invitae s interpretation of the terms and conditions of the Offer (including the letter of transmittal and instructions thereto) will be final and binding.

CombiMatrix Series F warrant holders who have any questions about the procedure for tendering CombiMatrix Series F warrants in the Offer should contact the information agent at the address and telephone number set forth on the back cover of this document.

### **Announcement of Results of the Offer**

Invitae will announce the final results of the Offer, including whether all of the conditions to the Offer have been satisfied or waived and whether Invitae will accept the tendered CombiMatrix Series F warrants for exchange, as promptly as practicable following the Expiration Date. The announcement will be made by a press release in accordance with applicable NYSE requirements.

## Material U.S. Federal Income Tax Consequences of the Offer

The following is a discussion of material U.S. federal income tax consequences of the Offer applicable to U.S. Holders (as defined below) who exchange their CombiMatrix Series F warrants for Invitae common stock in the Offer. The effects of other U.S. federal tax laws, such as estate and gift tax laws, and any applicable state, local, or non-U.S. tax laws are not discussed. This discussion is based on the Code, U.S. Treasury Regulations promulgated thereunder, judicial decisions, and published rulings and administrative pronouncements of the Internal Revenue Service, or the IRS, each as in effect as of the date of this prospectus/offer to exchange. These authorities are subject to differing interpretations or change. Any such change, which may or may not be retroactive, could alter the tax consequences to holders of CombiMatrix Series F warrants as described herein.

This discussion does not address all U.S. federal income tax consequences relevant to the particular circumstances of each CombiMatrix Series F warrant holder. In addition, it does not address consequences relevant to CombiMatrix

Series F warrant holders that are subject to particular U.S. tax rules, including, without limitation:

persons who hold CombiMatrix Series F warrants in a functional currency other than the U.S. dollar;

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persons who hold CombiMatrix Series F warrants as part of an integrated investment (including a straddle, pledge against currency risk, constructive sale or conversion transaction or other integrated or risk reduction transactions) consisting of CombiMatrix Series F warrants and one or more other positions;

persons who are not U.S. Holders as defined below;

persons who are U.S. expatriates;

banks, insurance companies, mutual funds, tax-exempt entities, financial institutions, broker-dealers, real estate investment trusts or regulated investment companies;

persons who do not hold their CombiMatrix Series F warrants as a capital asset within the meaning of Section 1221 of the Code;

partnerships or other entities classified as partnerships or disregarded entities for U.S. federal income tax purposes, S corporations or other pass-through entities (including hybrid entities);

persons who acquired CombiMatrix Series F warrants pursuant to compensatory transactions;

persons who acquired CombiMatrix Series F warrants pursuant to conversion rights under convertible instruments; and

persons who hold CombiMatrix Series F warrants through individual retirement accounts or other tax-deferred accounts.

For purposes of this discussion, a U.S. Holder is a beneficial owner of CombiMatrix Series F warrants that, for U.S. federal income tax purposes, is or is treated as:

an individual who is a citizen or resident of the United States;

a corporation (or other entity taxable as a corporation for U.S. federal income tax purposes) created or organized in or under the laws of the United States, any state thereof, or the District of Columbia;

an estate, the income of which is subject to U.S. federal income taxation regardless of its source; or

a trust if either (i) a court within the United States is able to exercise primary supervision over the administration of such trust and one or more United States persons (within the meaning of Section 7701(a)(30) of the Code) are authorized or have the authority to control all substantial decisions of such trust, or (ii) the trust was in existence on August 20, 1996 and has a valid election in effect under applicable Treasury Regulations to be treated as a United States person for U.S. federal income tax purposes. If an entity treated as a partnership for U.S. federal income tax purposes holds CombiMatrix Series F warrants, the tax treatment of a partner in the partnership will depend on the status of the partner, the activities of the partnership and certain determinations made at the partner level. If you are a partnership or a partner of a partnership holding CombiMatrix Series F warrants or any other person excluded from this discussion, you should consult your tax advisor regarding the tax consequences of the Offer.

The purpose of the Offer is for Invitae to satisfy its obligations under the Merger Agreement, and Invitae intends to consummate the Merger promptly after completion of the Offer. See the section entitled *The Offer Purpose of the Merger; The Merger; No Dissenter s Rights Purpose of the Offer; The Merger.* Consequently, the following discussion assumes that the Offer will not be completed without the completion of the Merger, and that the Offer, together with the Merger, should be treated for U.S. federal income tax purposes as a single integrated transaction.

In addition, the following discussion does not address (i) any U.S. federal non-income tax consequences of the Offer, including estate, gift or other tax consequences, (ii) any state, local or non-U.S. tax consequences of the

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Offer, (iii) the Medicare contribution tax on net investment income or the alternative minimum tax, (iv) the tax consequences of transactions effectuated before, after or at the same time as the Offer (whether or not they are in connection with the Offer), including, without limitation, transactions in which CombiMatrix Series F warrants are acquired or are converted in the Merger, and (v) tax consequences to holders of CombiMatrix common stock or options or similar rights to purchase CombiMatrix stock other than CombiMatrix Series F warrants.

IN LIGHT OF THE FOREGOING, COMBIMATRIX SERIES F WARRANT HOLDERS SHOULD CONSULT THEIR OWN TAX ADVISORS REGARDING THE TAX CONSEQUENCES TO THEM OF THE OFFER, INCLUDING THE APPLICABLE U.S. FEDERAL, STATE, LOCAL AND NON-U.S. INCOME AND OTHER TAX CONSEQUENCES, AND ANY TAX REPORTING REQUIREMENTS OF THE OFFER AND RELATED TRANSACTIONS IN LIGHT OF THEIR PARTICULAR CIRCUMSTANCES.

In connection with the filing of the registration statement of which this prospectus/offer to exchange is a part, Pillsbury will deliver to Invitae and Stradling will deliver to CombiMatrix opinions that the statements under the caption *The Offer Material U.S. Federal Income Tax Consequences of the Offer*, constitute the opinions of Pillsbury and Stradling, respectively. In rendering their opinions, counsel assume that the statements and facts concerning the Offer set forth in this prospectus/offer to exchange, in the proxy statement/prospectus relating to the Merger, and in the Merger Agreement, are true and accurate in all respects, and that the Offer and the Merger will be completed in accordance with this prospectus/offer to exchange, the prospectus/proxy statement relating to the Merger, and the Merger Agreement. Counsels opinions also assume the truth and accuracy of certain representations and covenants as to factual matters made by Invitae, CombiMatrix and Merger Sub in tax representation letters provided to counsel. In addition, counsel base their tax opinions on the law in effect on the date of the opinions and assume that there will be no change in applicable law between such date and the time of completion of the Offer and the Merger. If any of these assumptions is inaccurate, the tax consequences of the Offer could differ from those described in this prospectus/offer to exchange.

No ruling from the IRS has been or will be requested with respect to the tax consequences of the Offer. Opinions of counsel do not bind the courts or the IRS, nor will they preclude the IRS from adopting a position contrary to those expressed in the opinions. Subject to the qualifications and assumptions described in this prospectus/offer to exchange, the Offer, together with the Merger, will be treated for U.S. federal income tax purposes as a reorganization within the meaning of Section 368(a) of the Code. Accordingly, but subject to the discussion below under the caption *Possible Alternative Characterization for U.S. Holders Also Holding Repurchased Warrants*, the tax consequences to U.S. Holders of CombiMatrix Series F warrants will be as follows:

- a U.S. Holder will not recognize gain or loss upon the exchange of CombiMatrix Series F warrants for Invitae common stock pursuant to the Offer, except with respect to cash received in lieu of a fractional share of Invitae common stock as described below;
- a U.S. Holder who receives cash in lieu of a fractional share of Invitae common stock in the Offer will recognize capital gain or loss in an amount equal to the difference between the amount of cash received instead of a fractional share and the U.S. Holder s tax basis allocable to such fractional share;
- a U.S. Holder s aggregate tax basis for the shares of Invitae common stock received in the Offer (including any fractional share interest for which cash is received) will equal the U.S. Holder s aggregate tax basis in the

CombiMatrix Series F warrants surrendered in the Offer; and

the holding period of the shares of Invitae common stock received by a U.S. Holder in the Offer will include the holding period of the CombiMatrix Series F warrants surrendered in exchange therefor.

Gain or loss recognized by a U.S. Holder who receives cash in lieu of a fractional share of Invitae common stock will constitute capital gain or loss and any such gain or loss will constitute long-term capital gain or loss if the U.S. Holder s holding period in the CombiMatrix Series F warrants surrendered in the Offer is more than one year as of completion of the Offer and the Merger. Under current law, long-term capital gains of non-corporate

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taxpayers are taxed at a reduced U.S. federal income tax rate. Under current law, the deductibility of capital losses is subject to limitations. In addition, for purposes of the above discussion regarding the determination of the bases and holding periods for shares of Invitae common stock received in the Offer, U.S. Holders who acquired different blocks of CombiMatrix Series F warrants at different times for different prices must calculate their bases and holding periods in their CombiMatrix Series F warrants separately for each identifiable block of such warrants exchanged in the Offer.

As provided in Treasury Regulations Section 1.368-3(d), each U.S. Holder who receives shares of Invitae common stock in the Offer or the Merger is required to retain permanent records pertaining to the Offer and the Merger, and make such records available to any authorized IRS officers and employees. Such records should specifically include information regarding the amount, basis, and fair market value of all transferred property, and relevant facts regarding any liabilities assumed or extinguished as part of such reorganization. Additionally, U.S. Holders who owned immediately before completion of the Offer and the Merger at least five percent (by vote or value) of the total outstanding stock of CombiMatrix, or Series D warrants or Series F warrants (including Series F warrants participating in the Offer) the aggregate federal income tax basis of which was at least \$1 million, are required to attach a statement to their tax returns for the year in which the Offer and the Merger are completed that contains the information listed in Treasury Regulation Section 1.368-3(b). Such statement must include the U.S. Holder s tax basis in and fair market value of such U.S. Holder s shares of CombiMatrix stock, Series D warrants and Series F warrants surrendered in the Offer or the Merger, the date of completion of the Offer and the Merger and the name and employer identification number of each of CombiMatrix and Invitae. Holders of CombiMatrix Series F convertible preferred stock should consult their tax advisors regarding application of these requirements to their particular circumstances.

If the Offer, together with the Merger, fails to qualify as a reorganization within the meaning of Section 368(a) of the Code, then a U.S. Holder would recognize gain or loss upon the exchange of CombiMatrix Series F warrants for shares of Invitae common stock equal to the difference between the fair market value, at the time of the exchange, of the Invitae common stock received in the Offer (including any cash received in lieu of a fractional share of Invitae common stock) and such U.S. Holder s tax basis in the CombiMatrix Series F warrants surrendered in the Offer. Such gain or loss would be long-term capital gain or loss if the CombiMatrix Series F warrants were held for more than one year at the time of completion of the Offer and the Merger. In addition, the U.S. Holder s aggregate tax basis in the shares of Invitae common stock received in the Offer would equal their fair market value at the time of completion of the Offer and the Merger, and the U.S. Holder s holding period of such shares of Invitae common stock would commence the day after completion of the Offer and the Merger.

Possible Alternative Characterization for U.S. Holders Also Holding Repurchased Warrants

CombiMatrix has repurchased half of the outstanding and unexercised CombiMatrix Series A warrants, Series B warrants, Series E warrants and PIPE warrants pursuant to the terms of that certain CombiMatrix Common Stock Purchase Warrants Repurchase Agreement dated July 11, 2016 and, upon the closing of the Merger, will repurchase the remainder of such outstanding and unexercised warrants. See the section entitled *The Merger Agreement CombiMatrix Stock Options, RSUs and Warrants*. The discussion above assumes that any cash received by a U.S. Holder in respect of any such repurchase of warrants by CombiMatrix should not be integrated with the exchange of CombiMatrix Series F warrants for Invitae common stock in the Offer; however, the IRS may assert that cash received pursuant to any such repurchase from a U.S. Holder should be integrated with such exchange of CombiMatrix Series F warrants for Invitae common stock in the Offer (and, if relevant, the exchange of CombiMatrix stock for Invitae common stock in the IRS prevailed in such an assertion, the federal income tax consequences to U.S. Holders could differ from the consequences described above. In general, U.S. Holders would not be able to recognize any loss in the integrated transaction and any cash received would be treated as capital gain in an amount equal to the lesser of the overall gain recognized in the integrated transaction and the cash received. Holders of shares of CombiMatrix capital stock and of CombiMatrix warrants should consult their tax advisors as to the

federal income tax consequences to them of any such alternative characterization.

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Information Reporting and Backup Withholding

A U.S. Holder of CombiMatrix Series F warrants may be subject to information reporting and backup withholding for U.S. federal income tax purposes on cash paid in lieu of fractional shares in connection with the Offer. The current backup withholding rate is 28 percent. Backup withholding will not apply, however, to a U.S. Holder who (i) furnishes a correct taxpayer identification number and certifies the U.S. Holder is not subject to backup withholding on IRS Form W-9 or a substantially similar form or (ii) certifies the U.S. Holder is otherwise exempt from backup withholding. U.S. Holders of CombiMatrix Series F warrants should consult their tax advisors regarding their qualification for an exemption from backup withholding and the procedures for obtaining such an exemption. If a U.S. Holder does not provide a correct taxpayer identification number on IRS Form W-9 or other proper certification, the U.S. Holder may be subject to penalties imposed by the IRS. Any amounts withheld under the backup withholding rules may be refunded or allowed as a credit against a U.S. Holder s U.S. federal income tax liability, if any, provided the required information is timely furnished to the IRS. In the event of backup withholding, consult with your tax advisor to determine if you are entitled to any tax credit, tax refund or other tax benefit as a result of such backup withholding.

THE PRECEDING DISCUSSION IS A SUMMARY OF THE MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES OF THE OFFER AND DOES NOT PURPORT TO BE A COMPLETE ANALYSIS OR DISCUSSION OF ALL POTENTIAL TAX EFFECTS RELEVANT THERETO. U.S. HOLDERS OF COMBIMATRIX SERIES F WARRANTS SHOULD CONSULT THEIR TAX ADVISORS AS TO THE SPECIFIC TAX CONSEQUENCES TO THEM OF THE OFFER, INCLUDING THE APPLICABLE U.S. FEDERAL, STATE, LOCAL AND NON-U.S. INCOME AND OTHER TAX CONSEQUENCES, AND ANY TAX REPORTING REQUIREMENTS OF THE OFFER AND RELATED TRANSACTIONS IN LIGHT OF THEIR PARTICULAR CIRCUMSTANCES.

Purpose of the Offer; The Merger; No Dissenter s Rights

Purpose of the Offer; The Merger

Pursuant to the Merger Agreement, the successful completion of the Offer, including the satisfaction of the condition to the Offer that at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement shall have been validly tendered and not withdrawn prior to the expiration of the Offer, is a precondition to Invitae s obligation to consummate the Merger. Promptly after completion of the Offer, Invitae intends to consummate the Merger, i.e., a merger of Merger Sub with and into CombiMatrix, with CombiMatrix surviving the Merger as a wholly owned subsidiary of Invitae. After the Merger, the former CombiMatrix Series F warrant holders will no longer have any direct ownership interest in the surviving corporation. See the sections entitled *Background of the Merger and the Offer* and *The Merger Agreement* for a more detailed description of the events leading up to the proposed Merger and Offer and the terms and conditions of the Merger Agreement.

In the Merger, the CombiMatrix Series F warrants of warrant holders that do not participate in the Offer will be assumed by Invitae in accordance with their terms and converted into warrants to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such warrants being adjusted appropriately to reflect the Merger Exchange Ratio.

It is currently anticipated that, at the closing of the Merger, the Merger Exchange Ratio would be between approximately 0.91 and 0.84 shares of Invitae common stock. The Merger Exchange Ratio is determined pursuant to a formula in the Merger Agreement and described in this prospectus/offer to exchange, and the estimate of the Merger Exchange Ratio is subject to adjustment. For example, the estimated Merger Exchange Ratio of 0.91 was calculated

assuming that 100% of the CombiMatrix Series F warrants are exchanged in the Offer. Based on the average closing price of \$9.491 per share of Invitae common stock on the NYSE for the 30 trading days prior to July 31, 2017, the date on which the Merger Agreement was executed, and estimated CombiMatrix net cash of negative \$0.8 million (the calculation of which includes a reduction for CombiMatrix transaction bonuses payable), the estimated Merger Exchange Ratio represented \$8.60 in value for each share of

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CombiMatrix common stock. If, instead of being exchanged, 100% of the CombiMatrix Series F warrants were exercised prior to the Merger, the Merger Exchange Ratio would be reduced to 0.84, representing \$8.00 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$2.3 million (which excludes warrant exercise proceeds). Alternatively, if none of the CombiMatrix Series F warrants are exchanged in the Offer or exercised prior to the Merger and all such warrants are assumed by Invitae, although Invitae s obligation to proceed with the Merger is subject to a participation level in the Offer of at least 90% as described in this prospectus/offer to exchange, the Merger Exchange Ratio would be reduced to 0.87, representing \$8.25 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$0.7 million. These dollar values may fluctuate higher or lower prior to the closing of the Merger depending on fluctuations in the price of Invitae common stock on the NYSE. See the sections entitled *The Merger Agreement Merger Consideration and Exchange Ratio* and *The Merger Agreement Determination of CombiMatrix s Net Cash; Merger Consideration Sensitivity Analysis* for additional factors that may affect the Merger Exchange Ratio. Invitae does not intend to list such warrants for trading on any national stock exchange.

Following the completion of the Merger, Invitae securityholders are expected to own approximately 6.9% of the fully-diluted common stock of the combined company and CombiMatrix securityholders are expected to own approximately 93.1% of the fully-diluted common stock of the combined company. These estimates are based on the assumption that 100% of the CombiMatrix Series F warrants are exchanged in the Offer and subject to adjustment.

See the section entitled *The Merger Agreement Merger Consideration and Exchange Ratio* for a description of the Merger Exchange Ratio formula.

In comparison, under the terms of the Offer, each CombiMatrix Series F warrant holder will receive, for each outstanding CombiMatrix Series F warrant to acquire one share of CombiMatrix common stock validly tendered and not withdrawn in the Offer, a fraction of a share of Invitae common stock equal to the Warrant Exchange Ratio, subject to the procedures described in this document and the related letter of transmittal.

## No Dissenter s Rights

CombiMatrix Series F warrant holders do not have dissenter s rights in connection with the Offer. In addition, holders of shares of CombiMatrix common stock will not be entitled to any appraisal rights under Delaware General Corporation Law in connection with the Merger.

Effect of the Offer on the Market for CombiMatrix Series F warrants; NASDAQ Capital Market Listing; Registration Under the Exchange Act; Margin Regulations

Effect of the Offer on the Market for the CombiMatrix Series F warrants; NASDAQ Capital Market Listing

In connection with the completion of the Offer and the Merger, Invitae and CombiMatrix intend to make the appropriate filings to delist any remaining unexchanged CombiMatrix Series F warrants from trading on the NASDAQ Capital Market, presuming any remaining unexchanged CombiMatrix Series F warrants will qualify for delisting. The CombiMatrix Series F warrants that are not validly tendered in the Offer, if any, and that remain outstanding and unexercised at the time of the Merger will be assumed by Invitae in accordance with their terms and converted into warrants to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such warrants being adjusted appropriately to reflect the Merger Exchange Ratio. Invitae does not intend to list such warrants for trading on any national stock exchange.

The ability to sell unexchanged warrants which are converted into Invitae warrants will become limited and could cease to exist due to the reduction in the anticipated amount of the warrants outstanding upon completion of the Offer and the delisting of the warrants from the NASDAQ Capital Market. A more limited trading market

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might adversely affect the liquidity, market price and price volatility of these securities. If a market for such warrants develops, these securities may trade at a discount to the price at which the securities would trade if the amount outstanding were not reduced and the securities were not delisted from trading on the NASDAQ Capital Market, depending on the market for similar securities and other factors. However, there can be no assurance that an active market or any market in the warrants will exist, develop or be maintained or as to the prices at which such warrants may be traded.

## Registration Under the Exchange Act

CombiMatrix Series F warrants currently are registered under the Exchange Act. This registration may be terminated upon application by CombiMatrix to the SEC if CombiMatrix Series F warrants are not listed on a national securities exchange and there are fewer than 300 record holders. Termination of registration would substantially reduce the information required to be furnished to holders of CombiMatrix Series F warrants and to the SEC and would make certain provisions of the Exchange Act, such as the short-swing profit recovery provisions of Section 16(b) and the requirements of Exchange Act Rule 13e-3 with respect to going private transactions, no longer applicable to CombiMatrix Series F warrants. In addition, affiliates of CombiMatrix and persons holding restricted securities of CombiMatrix may be deprived of the ability to dispose of these securities pursuant to Rule 144 under the Securities Act. If registration of CombiMatrix Series F warrants under the Exchange Act is not terminated prior to the Merger, then Invitae intends to terminate the registration of CombiMatrix Series F warrants following consummation of the Merger.

### Margin Regulations

CombiMatrix Series F warrants currently are a margin security under the regulations of the Board of Governors of the Federal Reserve System, which has the effect, among other things, of allowing brokers to extend credit on the collateral of the CombiMatrix Series F warrants. Depending upon factors similar to those described above regarding listing and market quotations, it is possible that, following the Offer, CombiMatrix Series F warrants may no longer constitute margin securities for purposes of the margin regulations of the Federal Reserve Board, in which event such CombiMatrix Series F warrants could no longer be used as collateral for loans made by brokers.

## **Conditions of the Offer**

Subject to the provisions of the Merger Agreement, Invitae will not accept for exchange or exchange any CombiMatrix Series F warrants, may postpone the acceptance for exchange, or the exchange, of tendered CombiMatrix Series F warrants, and may, in its sole discretion, terminate or amend the Offer consistent with the terms of the Merger Agreement if at the Expiration Date the following conditions are not met or waived, if subject to waiver.

### Minimum Tender

There shall have been validly tendered and not properly withdrawn prior to the expiration of the Offer, a number of CombiMatrix Series F warrants which constitutes at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement; provided that Invitae has offered shares of Invitae common stock with a value of at least \$2.90 per CombiMatrix Series F warrant (based on the Invitae Trailing Average Share Value).

### **Certain Other Conditions**

The other conditions to the Offer are as follows:

the registration statement on Form S-4, of which this document is a part, must have been declared effective by the SEC in accordance with the Securities Act of 1933, or the Securities Act, and must not be subject to any stop order or proceeding, or any proceeding threatened by the SEC, seeking a stop order;

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the holders of a majority of the outstanding CombiMatrix common stock must have adopted and approved the proposal to adopt the Merger Agreement;

there must not have been issued any temporary restraining order, preliminary or permanent injunction or other order preventing the consummation of the Offer by any court of competent jurisdiction or other governmental entity of competent jurisdiction that remains in effect, and there must be no law, statute, rule, regulation, ruling or decree in effect which has the effect of making the consummation of the Offer illegal;

any waiting period applicable to the consummation of the Merger and the Offer under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, or HSR Act, must have expired or been terminated, and there must not be in effect any voluntary agreement by any party to the Merger Agreement and the U.S. Federal Trade Commission, the U.S. Department of Justice or any foreign governmental body, pursuant to which such party has agreed not to consummate the Merger or the Offer for any period of time;

there must not be any legal proceeding pending or threatened by an official of a government or governmental entity in which such government or governmental entity indicates that it intends to conduct any legal proceeding or take any other action (i) challenging or seeking to restrain or prohibit the consummation of the Offer or any of the other transactions contemplated by the Merger Agreement, (ii) relating to the Offer or any of the other transactions contemplated by the Merger Agreement and seeking to obtain from Invitae, Merger Sub or CombiMatrix any material damages or other relief, (iii) seeking to materially prohibit or limit the ability to vote, transfer, receive dividends or otherwise exercise ownership rights with respect to any Invitae common stock to be issued in the Offer, (iv) that would materially affect the right or ability of Invitae or CombiMatrix to own the assets or operate their businesses, or (v) seeking to compel Invitae or CombiMatrix to dispose of or hold separate any material assets as a result of the Offer or any of the other transactions contemplated by the Merger Agreement;

the shares of Invitae common stock to be issued in Offer must be approved for listing on the NYSE as of the effective time of the Merger;

all conditions to closing under the Merger Agreement shall have been satisfied or waived, other than those conditions which by their nature are only capable of being satisfied as of closing and other than the consummation of the Offer; and

the Merger Agreement shall not have been terminated in accordance with its terms. Subject to the provisions of the Merger Agreement, the foregoing conditions are for the sole benefit of Invitae and may be asserted by Invitae regardless of the circumstances or may be waived by Invitae, by express and specific action to that effect, in whole or in part at any time and from time to time on or prior to the Expiration Date, except that the conditions relating to receipt of any approvals from any governmental entity may be asserted at any time prior to Invitae s acceptance of CombiMatrix Series F warrants for exchange pursuant to the Offer. Any determination by Invitae concerning any event described above will be final and binding upon all parties. The failure by Invitae at any time to exercise any of the foregoing rights will not be deemed a waiver of any such right, the waiver of any such right with respect to particular facts and other circumstances will not be deemed a waiver with respect to any other facts and

circumstances and each such right will be deemed an ongoing right that may be asserted at any time and from time to time, in each case subject to the applicable rules and regulations of the SEC.

## Certain Legal Matters; Regulatory Approvals

Invitae is not aware of any governmental license or regulatory permit that appears to be material to CombiMatrix s business that might be adversely affected by Invitae s acquisition of CombiMatrix Series F warrants pursuant to the Offer or, except as described below, of any approval or other action by any government

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or governmental administrative or regulatory authority or agency, domestic or foreign, that would be required for Invitae s acquisition or ownership of CombiMatrix Series F warrants pursuant to the Offer. Pursuant to the Merger Agreement, Invitae and CombiMatrix have agreed to cooperate and use commercially reasonable efforts to obtain all regulatory approvals required to complete the transactions contemplated by the Merger Agreement, including the Offer. Invitae must comply with applicable federal and state securities laws and the rules and regulations of the NYSE in connection with the issuance of shares of Invitae common stock upon completion of the Offer and the filing of this prospectus/offer to exchange and other documents with the SEC.

The Merger Agreement also provides that CombiMatrix and Invitae will file any notification and report forms required to be filed under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, and respond as promptly as practicable to any inquiries or requests received from the Federal Trade Commission or the Department of Justice for information or documentation or any inquiries or requests received from any other governmental body in connection with antitrust or competition matters.

Although neither Invitae nor CombiMatrix knows of any reason why these regulatory approvals cannot be obtained in a timely manner, neither Invitae nor CombiMatrix can be certain when or if they will be obtained. Invitae s obligation under the Offer to accept for exchange and pay for CombiMatrix Series F warrants is subject to certain conditions. See the section entitled *The Offer Conditions of the Offer*.

### Interests of Certain CombiMatrix Directors and Officers

When you consider whether to tender your CombiMatrix Series F warrants in the Offer, you should keep in mind that the directors and officers of CombiMatrix have interests in the Merger and the Offer as individuals that are different from, or in addition to, your interests as a stockholder. The CombiMatrix board of directors was aware of these interests and considered them, among other matters, in approving the Merger Agreement and the transactions it contemplates.

In addition, the exercise of CombiMatrix s directors and officers discretion in agreeing to changes or waivers in the terms of the Merger may result in a conflict of interest when determining whether such changes or waivers are appropriate and in the best interests of CombiMatrix s stockholders.

As of September 26, 2017, directors and executive officers of CombiMatrix owned or controlled 1.42% of the outstanding shares of CombiMatrix common stock.

## Restated Executive Change of Control Severance Plan

CombiMatrix provides certain severance benefits such that if any of its executive officers is terminated for other than cause, death or disability, the executive will receive payments equal to three months base salary plus medical and dental benefits. In addition, CombiMatrix has a Restated Executive Change of Control Severance Plan (as amended, the Severance Plan ) that affects certain senior management-level employees who are classified as Section 16 Officers of CombiMatrix. Pursuant to the Severance Plan, if a participating employee is involuntarily terminated (other than for death, disability or for cause) or resigns for good reason (as defined in the Severance Plan) during the two-year period following a change of control (as defined in the Severance Plan) of CombiMatrix, then, subject to execution of a release of claims against CombiMatrix, the employee will be entitled to receive: (i) one-half times annual base salary (one times annual base salary for the chief executive officer); (ii) immediate vesting of outstanding compensatory equity awards; and (iii) payment of COBRA premiums for the participating employee and eligible dependents for a pre-determined period of time. Payment of benefits under the Severance Plan will be limited by provisions contained in Section 409A of the U.S. Internal Revenue Code. The Severance Plan is administered by a plan administrator,

which initially is the compensation committee of the CombiMatrix board of directors. In order to participate in the Severance Plan, an eligible employee must waive any prior retention or severance agreements. The Severance Plan automatically renews annually unless terminated upon 12 months prior written notice. It is anticipated that Mr. McDonough,

CombiMatrix s chief executive officer, and Mr. Burell, CombiMatrix s chief financial officer, will receive approximately \$380,000 and \$141,000, respectively, in benefits (inclusive of payment of COBRA premiums) under the Severance Plan as a result of any consummation of the Merger.

### Transaction Bonus Payout Agreements

The CombiMatrix board of directors and compensation committee adopted a Transaction Bonus Plan on December 2, 2015, or the Transaction Bonus Plan, as a form of retention for senior management to actively assist in exploring a strategic transaction, and to motivate and align the participants interest in negotiating for and maximizing stockholder value for a strategic transaction. The Transaction Bonus Plan provides for certain bonus payments to be made, upon any consummation of a qualifying change of control transaction such as the Merger, to certain participants as shall be determined from time to time by the compensation committee of the CombiMatrix board of directors. The aggregate value of the bonuses payable under the Transaction Bonus Plan shall be the greater of (i) \$1,000,000 or (ii) ten percent of the net proceeds received in connection with a qualifying change of control transaction such as the Merger, and the percentage of such bonus pool awarded to each eligible participant shall be determined from time to time by the compensation committee of the CombiMatrix board of directors. Although the total amount of the bonuses payable under the Transaction Bonus Plan will not be known until immediately prior to the closing of the Merger, and the participants and the allocation of bonus amounts payable under the Transaction Bonus Plan have not yet been determined by the compensation committee of the CombiMatrix board of directors, it is anticipated that CombiMatrix s executive officers will receive a substantial portion of the bonus pool and that CombiMatrix s non-employee members of the board of directors will receive a small portion of the bonus pool.

In connection with the execution of the Merger Agreement, certain officers of CombiMatrix entered into a transaction bonus payout agreement, or the Executive Officer Transaction Bonus Payout Agreement. The form of the Executive Officer Transaction Bonus Payout Agreement, dated July 31, 2017, is attached as Exhibit B-1 to *Annex A* to this prospectus/offer to exchange and is incorporated herein by reference. In accordance with the terms of the Executive Officer Transaction Bonus Payout Agreement, CombiMatrix s executive officers and a vice president of CombiMatrix have agreed to accept restricted stock units for Invitae common stock, or Invitae RSUs, in lieu of cash payments under the Transaction Bonus Plan, which Invitae RSUs will be subject to the terms of an Invitae RSU award agreement. The number of shares of Invitae common stock subject to such Invitae RSUs shall be equal to the dollar amount of the transaction bonus awarded to the participant under the Transaction Bonus Plan divided by the Invitae Trailing Average Share Value.

If the applicable executive has a Consulting Agreement (as defined and described below) with Invitae as of the closing of the Merger, then the Invitae RSUs granted under the Executive Officer Transaction Bonus Payout Agreement shall vest and be settled as follows: (a) Invitae RSUs represented by the dollar amount of the transaction bonus awarded to the executive under the Transaction Bonus Plan minus \$817,834 in the case of Mr. McDonough and \$40,000 in the case of Mr. Burell, divided by the Invitae Trailing Average Share Value, shall vest and be settled on the closing of the Merger; and (b) Invitae RSUs represented by \$817,834 in the case of Mr. McDonough and \$40,000 in the case of Mr. Burell, divided by the Invitae Trailing Average Share Value, shall vest and be settled on the eight-month anniversary of the closing of the Merger, so long as the executive has rendered services as required by the Consulting Agreement through the eight-month anniversary of the closing of the Merger (subject to acceleration for a change in control of Invitae or a termination of the Consulting Agreement without cause, for good reason or due to death or permanent disability). To the extent that the applicable executive does not have a Consulting Agreement in effect as of the closing of the Merger, the Invitae RSUs granted under the Executive Officer Transaction Bonus Payout Agreement shall vest on the closing of the Merger and be settled in three equal monthly installments, subject to acceleration of settlement upon a change in control of Invitae.

In connection with the execution of the Merger Agreement, non-employee members of the CombiMatrix board of directors entered into a transaction bonus payout agreement, or the Board Transaction Bonus Payout

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Agreement. The form of the Board Transaction Bonus Payout Agreement, dated July 31, 2017, is attached as Exhibit B-2 to *Annex A* to this prospectus/offer to exchange and is incorporated herein by reference. In accordance with the terms of the Board Transaction Bonus Payout Agreement, CombiMatrix s non-employee directors have agreed to accept unrestricted Invitae common stock at the closing of the Merger in lieu of cash payments under the Transaction Bonus Plan. The number of shares of Invitae common stock shall be equal to the dollar amount of the transaction bonus awarded to the participant under the Transaction Bonus Plan divided by the Invitae Trailing Average Share Value.

### **Consulting Agreements**

In connection with the execution of the Merger Agreement and in order to satisfy one of the conditions to closing of the Merger, Mr. McDonough and Mr. Burell each entered into an eight-month consulting agreement with Invitae to become effective as of the closing of the Merger, each of which is referred to as a Consulting Agreement, and, collectively as the Consulting Agreements. The Consulting Agreements require such individuals to provide strategic management and leadership services of CombiMatrix as the operations of CombiMatrix integrate into Invitae. The Consulting Agreements provide for monthly compensation of \$30,333.33 and \$22,150, respectively, for Messrs. McDonough and Burell and monthly reimbursement of COBRA premiums. In addition, the Consulting Agreements provide that (a) within 75 days after December 31, 2017, and assuming that no portion of any such bonus amount has been previously paid to the contractor, Invitae will pay the contractor any applicable annual bonus amount for actual achievement of second half and year-end targets under that certain CombiMatrix Amended and Restated 2017 Executive Performance Bonus Plan and (b) Invitae will reimburse all reasonable and otherwise unreimbursed transportation and hotel expenses for the contractor and his spouse for the CombiMatrix 2017 President s Club. The Consulting Agreements are terminable by Invitae or the contractor, but in the event of termination without cause or for good reason, all compensation will continue to be paid through the eight-month anniversary and the performance bonus also will be paid in the event of termination due to death or permanent disability.

### Indemnification and Other Interests

In connection with the closing of the Merger, all CombiMatrix RSUs and in-the-money stock options held by the CombiMatrix executive officers and members of the board of directors will be accelerated in full and converted into the right to receive Merger consideration (less the exercise price of the in-the-money stock options).

CombiMatrix is party to indemnification agreements with each of its directors and executive officers that require CombiMatrix, among other things, to indemnify the directors and executive officers against certain liabilities that may arise by reason of their status or service as directors or officers. In addition, pursuant to the terms of the Merger Agreement, CombiMatrix s directors and executive officers will be entitled to certain ongoing indemnification from the surviving corporation in the Merger and coverage under directors and officers liability insurance policies. Such indemnification and insurance coverage is further described in the section entitled *The Merger Agreement Indemnification and Insurance for CombiMatrix Directors and Officers*.

## Merger-Related Compensation for CombiMatrix s Named Executive Officers

In accordance with Item 402(t) of Regulation S-K, the tables below present the estimated amounts of compensation that each named executive officer of CombiMatrix could receive that are based on or otherwise relate to the Merger. This compensation is referred to as golden parachute compensation by the applicable SEC disclosure rules, and in this section such term is used to describe the Merger-related compensation that may become payable to CombiMatrix s named executive officers. This Merger-related compensation will be the subject of a non-binding advisory vote of CombiMatrix stockholders at the special meeting.

The amounts set forth below have been calculated assuming completion of the Merger on September 27, 2017, the latest practicable date prior to the filing of this prospectus/offer to exchange, and, where applicable, assuming

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each named executive officer experiences a qualifying termination as of September 27, 2017. In addition, for purposes of determining equity award values, the amounts below are determined using the per-share Merger consideration. The amounts indicated below are estimates of amounts that would be payable to CombiMatrix s named executive officers, and the estimates are based on multiple assumptions that may or may not actually occur, including assumptions described in this prospectus/offer to exchange. Some of the assumptions are based on information not currently available, and as a result, the actual amounts, if any, to be received by a named executive officer may differ in material respects from the amounts set forth below. The amounts set forth in the table below do not reflect any reduction that might apply by reason of the applicable limits on paying amounts subject to a golden parachute excise tax; it is not expected that any payments would be grossed up in respect of such taxes. In addition, consistent with SEC guidance, the amounts below do not take into account the effect of the new Consulting Agreements between Invitae and Messrs. McDonough and Burell, which are described above. All dollar amounts set forth below have been rounded to the nearest whole number.

	Golden Parachute Payment(1)			
Name	Cash Severance (\$)(2)Equity (\$)(3)		Perquisites/Benefits (\$)(4)	Total (\$)
Mark McDonough	364,000	600,234	1,313,440	2,277,674
Scott Burell	132,600	195,806	661,220	989,626

- (1) All amounts reflected in the table, other than estimated amounts pertaining to the Transaction Bonus Plan, are attributable to double-trigger arrangements (*i.e.*, the amounts are triggered by (a) the change in control that will occur upon completion of the Merger and (b) the officer s qualifying termination in connection with the change in control).
- (2) The amounts reflect cash severance benefits that are payable under the Severance Plan in connection with the Merger. The severance benefits payable under the Severance Plan are described in more detail above.
- (3) The amounts reflect the aggregate value of time-based restricted stock unit awards held by each of CombiMatrix s named executive officers that will be accelerated in connection with the Merger. The terms of equity acceleration are described in more detail above. All stock options held by each of CombiMatrix s named executive officers are out-of-the-money and, accordingly, will be terminated in connection with the Merger.
- (4) The amounts reflect the payment of (i) estimated amounts of \$1,291,000 and \$650,000 provided to Messrs. McDonough and Burell, respectively, under the Transaction Bonus Plan (in the form of Invitae RSUs) and (ii) COBRA premiums of \$22,440 and \$11,220 provided to Messrs. McDonough and Burell, respectively, under the Severance Plan. The Transaction Bonus Plan payments and COBRA premiums are described in more detail above. The Transaction Bonus Plan payments reflected in the table are only estimates based on an assumed aggregate Merger consideration of \$26 million, and allocations of amounts under the Transaction Bonus Plan are subject to approval of the compensation committee of the CombiMatrix board of directors.

## **Current Directors and Executive Officers of Invitae**

Set forth below are the name, address and current principal occupation or employment, and material occupations, positions, offices or employment for the past five years of each director and executive officer of Invitae. Except as otherwise noted, positions specified are positions with Invitae. The business address for the directors and executive officers is 1400 16th Street, San Francisco, California 94103.

Except as otherwise indicated, all of the persons listed below are citizens of the United States of America. Except as otherwise indicated, none of the directors and executive officers of Invitae listed below has, during the past five years, (a) been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or (b) been a party

to any judicial or administrative proceeding that resulted in a judgment, decree or final order enjoining the person from future violations of, or prohibiting activities subject to, federal or state securities laws, or a finding of any violation of federal or state securities laws.

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### Name

## **Occupation or Employment**

Randal W. Scott, Ph.D.

Dr. Scott has served as Executive Chairman since January 2017, as Chairman since August 2012 and as a director since 2010. From August 2012 through January 2017, he served as Chief Executive Officer. From 2000 through August 2012, Dr. Scott held a number of positions at Genomic Health, Inc., a publicly held genomic information company which he co-founded in 2000, most recently serving as the Chief Executive Officer of a wholly owned subsidiary of Genomic Health, and as a director. Dr. Scott also served as Executive Chairman of the Board of Genomic Health from January 2009 until March 2012 and as Chairman of the Board and Chief Executive Officer from August 2000 until December 2008. Dr. Scott was a founder of Incyte Corporation, which at the time was a genomic information company, and served in various roles from 1991 through 2000, including Chairman of the Board, President and Chief Scientific Officer.

Sean E. George, Ph.D.

Dr. George has served as Chief Executive Officer since January 2017, a position he previously held from January 2010 through August 2012. Dr. George is one of Invitae s co-founders and has served as President since August 2012 and as Chief Operating Officer from August 2012 to January 2017. He has also served as a director since January 2010. Prior to co-founding Invitae, Dr. George served as Chief Operating Officer from 2007 to November 2009 at Navigenics, Inc., a personalized medicine company. Previously, he served as Senior Vice President of Marketing and Senior Vice President, Life Science Business at Affymetrix, Inc., a provider of life science and molecular diagnostic products, as well as Vice President, Labeling and Detection Business at Invitrogen Corporation, a provider of tools to the life sciences industry, during his tenure there from 2002 to 2007.

Eric Aguiar, M.D.

Dr. Aguiar has served as a director since September 2010. Since January 2016 he has been a partner at Aisling Capital, an investment firm specializing in products, technologies, and global businesses that advance health. He was a partner in the venture capital firm Thomas, McNerney & Partners from 2007 to January 1, 2016. Prior to joining that firm, he was a Managing Director of HealthCare Ventures, a healthcare focused venture capital firm, from 2001 to 2007. Dr. Aguiar was Chief Executive Officer and a director of Genovo, Inc., a biopharmaceutical company focused on gene delivery and gene regulation, from 1998 to 2000. Dr. Aguiar previously served as a director of Amarin Pharmaceuticals, a publicly-held biopharmaceutical company, as well as on the boards of directors of numerous private companies including companies in the life sciences industry. He is a member of the Board of Overseers of the Tufts School of Medicine and a member of the Council on Foreign Relations.

Geoffrey S. Crouse

Mr. Crouse has served as a director since March 2012. Mr. Crouse served as Chief Executive Officer of Cord Blood Registry from September 2012 to August 2015 when the company was sold to AMAG Pharmaceuticals. He served as Executive Vice President of AMAG until December 2015. Cord Blood Registry stores stem cells from umbilical blood and tissues. From April 2011 through September 2012, Mr. Crouse was a consultant. He previously served as Chief Operating Officer at Immucor, Inc., a publicly traded in vitro diagnostics company, from August 2009 to April 2011. Prior to Immucor, he served as Vice President of the life sciences business at Millipore Corporation, a publicly traded provider of technologies, tools

and services for the life science industry, from 2006 to 2009. Prior to joining Millipore, he worked at Roche, a pharmaceuticals and diagnostics company, where he held various roles from 2003 to 2006.

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#### Name

### **Occupation or Employment**

Christine M. Gorjanc

Ms. Gorjanc has served as a director since November 2015. She has served as the Chief Financial Officer of Netgear, Inc., a provider of networking products and services, since January 2008, where she previously served as Chief Accounting Officer from December 2006 to January 2008 and Vice President, Finance from November 2005 to December 2006. From September 1996 through November 2005, Ms. Gorjanc served as Vice President, Controller, Treasurer and Assistant Secretary for Aspect Communications Corporation, a provider of workforce and customer management solutions. From October 1988 through September 1996, she served as the Manager of Tax for Tandem Computers, Inc., a provider of fault-tolerant computer systems. Prior to that, Ms. Gorjanc served in management positions at Xidex Corporation, a manufacturer of storage devices, and spent eight years in public accounting with a number of public accounting firms.

Lee Bendekgey

Mr. Bendekgey has served as Chief Operating Officer since June 2017 and previously served as Chief Financial Officer from November 2013. Mr. Bendekgey also served as General Counsel from November 2013 through January 2017. Prior to joining Invitae, he was the General Counsel of DNAnexus, Inc., a cloud-based genome informatics and data management company, from September 2011 to October 2013. From March 2009 until September 2011, Mr. Bendekgey pursued personal interests. Prior to that, he was Chief Financial Officer and General Counsel for Nuvelo, Inc., a biopharmaceutical company, from July 2004 to March 2009. Mr. Bendekgey also served as General Counsel and Chief Financial Officer for Incyte Corporation from 1998 to July 2004.

Shelly D. Guyer

Ms. Guyer has served as Chief Financial Officer since June 2017. From April 2013 to December 2016, she was Chief Financial Officer of Veracyte, Inc., a genomic diagnostics company, and served as Veracyte s Secretary from April 2013 to March 2014. Previously, she served as Chief Financial Officer and Executive Vice President of Finance and Administration of iRhythm Technologies, Inc., a digital healthcare company, from April 2008 to December 2012. From March 2006 to August 2007, Ms. Guyer served as Vice President of Business Development and Investor Relations of Nuvelo Inc., a biopharmaceutical company. Prior to joining Nuvelo, Ms. Guyer worked at J.P. Morgan Securities and its predecessor companies for over 17 years, serving in a variety of roles including in healthcare investment banking.

Robert L. Nussbaum, M.D.

Dr. Nussbaum has served as Chief Medical Officer since August 2015. From April 2006 to August 2015, he was chief of the Division of Genomic Medicine at UCSF Health where he also held leadership roles in the Cancer Genetics and Prevention Program beginning in January 2009 and the Program in Cardiovascular Genetics beginning in July 2007. From April 2006 to August 2015, he served as a member of the UCSF Institute for Human Genetics. Prior to joining UCSF Health, Dr. Nussbaum was chief of the Genetic Disease Research Branch of the National Human Genome Research Institute, one of the National Institutes of Health, from 1994 to 2006. He is a member of the Institute of Medicine and a fellow at the American Academy of Arts and Sciences.

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## Board of Directors and Management of Invitae Following Completion of the Merger

Upon completion of the Merger, the board of directors of Invitae will continue to consist of the current five members, namely, Eric Aguiar, M.D., Geoffrey S. Crouse, Sean E. George, Ph.D. (Invitae s President and Chief Executive Officer), Christine M. Gorjanc, and Randal W. Scott, Ph.D (Invitae s Executive Chairman). Upon completion of the Merger, Randy Scott, Ph.D. will continue to serve as Executive Chairman and Sean George, Ph.D. will continue to serve as President and Chief Executive Officer of Invitae. The other executive officers of Invitae will continue to serve in their current capacities, including Lee Bendekgey, Chief Operating Officer, Shelly D. Guyer, Chief Financial Officer, and Robert L. Nussbaum, M.D., Chief Medical Officer.

## Certain Relationships With CombiMatrix

As of the date of the Offer, Invitae does not own any CombiMatrix Series F warrants. Invitae has not effected any transaction in securities of CombiMatrix in the past 60 days. None of the directors or executive officers of Invitae, nor any of its associates or majority-owned subsidiaries, beneficially owns or has the right to acquire any securities of CombiMatrix or has effected any transaction in securities of CombiMatrix during the past 60 days.

On September 25, 2017, Invitae and its wholly-owned subsidiary Good Start Genetics, Inc. (collectively referred to as Invitae) entered into a Marketing and Laboratory Services Agreement, or the Marketing Agreement, with CombiMatrix Molecular Diagnostics, Inc., or CMDX, a wholly-owned subsidiary of CombiMatrix. Pursuant to the terms of the Marketing Agreement, Invitae will promote and market certain CMDX diagnostic tests, including miscarriage analysis tests, or the Tests, to physicians and other healthcare providers in the same channels in which Invitae markets its own diagnostic tests. Invitae will also coordinate logistics, customer service and support for the Tests.

In consideration for the services provided by Invitae under the Marketing Agreement, CMDX will pay Invitae a \$200 fee for each Test Invitae markets and which CMDX processes, reports and bills to a patient, ordering physician or other healthcare provider and/or third party payer program, subject to all applicable federal, state and local laws, rules, and regulations, including, without limitation, the federal Anti-Kickback Statute and similar state anti-kickback laws and regulations. CMDX has also agreed to assist Invitae in promoting and marketing the Tests by providing training and support and sharing educational materials and scientific publications. In addition, CMDX will remain responsible for Test performance, reporting and billing.

Under the terms of the Marketing Agreement, the parties will jointly own all data and results from Tests performed as a result of Invitae s promotional activities, and CMDX will retain ownership of the Tests and related intellectual property.

The term of the Marketing Agreement commenced on September 25, 2017 and continues until December 31, 2019, with automatic renewals for successive 12-month periods. The Marketing Agreement may be terminated by either party upon (a) 60 days notice prior to the end of the then-current term, (b) a material breach by the other party (subject to a 60-day cure period, or 10 days with respect to a breach of such party s payment obligations) and (c) 60 days notice after the filing of bankruptcy, reorganization, liquidation or receivership proceedings by or against the other party. CMDX may also terminate the Marketing Agreement upon 30 days notice if Invitae enters into an agreement with a third party for, or decides to internally develop, invasive prenatal diagnostic tests, pediatric array tests or miscarriage analysis tests.

Except for the Marketing Agreement or as otherwise described in this document, (i) there have been no contacts, negotiations or transactions during the past two years between Invitae, any of its directors, executive officers or other

affiliates, on the one hand, and CombiMatrix or its affiliates, on the other hand, concerning any merger, consolidation, acquisition, tender offer, election of CombiMatrix s directors, or the sale of a material amount of CombiMatrix s assets, and (ii) Invitae, its directors, executive officers or other affiliates do not have any other present or proposed material agreement, arrangement, understanding or relationship with CombiMatrix or any of its executive officers, directors, controlling persons or subsidiaries.

### **Source and Amount of Funds**

The Offer and the Merger are not conditioned upon any financing arrangements or contingencies. Invitae believes it has all necessary funds on hand to consummate the transactions contemplated by the Merger Agreement and the Offer, including any related fees and expenses, and anticipates that it will have, immediately following the consummation of the transactions contemplated by the Merger Agreement and the Offer, cash on hand or available to be borrowed under its one or more credit facilities in an amount sufficient to fund ordinary course working capital and other general corporate purposes.

## Fees and Expenses

Invitae has retained Advantage Proxy, Inc. as information agent in connection with the Offer. The information agent may contact holders of CombiMatrix Series F warrants by mail, email, telephone, facsimile and personal interview and may request brokers, dealers, commercial banks, trust companies and other nominees to forward material relating to the Offer to beneficial owners of CombiMatrix Series F warrants who hold such warrants in street name. Invitae will pay the information agent reasonable and customary compensation for these services in addition to reimbursing the information agent for its reasonable out-of-pocket expenses. Invitae agreed to indemnify the information agent against certain liabilities and expenses in connection with the Offer, including certain liabilities under the U.S. federal securities laws.

In addition, Invitae has retained American Stock Transfer & Trust Company, LLC as exchange agent in connection with the Offer. Invitae will pay the exchange agent reasonable and customary compensation for its services in connection with the Offer, will reimburse the exchange agent for its reasonable out-of-pocket expenses and will indemnify the exchange agent against certain liabilities and expenses, including certain liabilities under the U.S. federal securities laws.

Invitae will reimburse brokers, dealers, commercial banks, trust companies and other nominees, upon request, for customary clerical and mailing expenses incurred by them in forwarding offer materials to their customers who hold CombiMatrix Series F warrants in street name. Except as set forth above, Invitae will not pay any fees or commissions to any broker, dealer, commercial bank, trust company, other nominee or other person for soliciting tenders of CombiMatrix Series F warrants pursuant to the Offer.

## **Accounting Treatment**

Invitae prepares its financial statements in accordance with U.S. GAAP. In determining the accounting treatment of the Merger, management has evaluated all pertinent facts and circumstances and has concluded that business combination accounting would apply to the transaction.

The Merger will be accounted for using the acquisition method of accounting, which requires the determination of which entity is the accounting acquirer. The accounting acquirer is the entity that obtains control of the acquiree. The determination of the acquirer considers many factors, including but not limited to the relative voting rights in the combined entity after the business combination, the existence of a large minority interest in the combined entity if no other owner or organized group of owners has a significant voting interest, the composition of the governing body of the combined entity, the composition of the senior management of the combined entity, the terms of the exchange of equity securities, and the relative size of the combining entities and which of the combining entities initiated the combination. There is no hierarchical guidance on determining the acquirer in a business combination effected through an exchange of equity interests.

Invitae has concluded that Invitae is the accounting acquirer based on its evaluation of the facts and circumstances of the acquisition. The purpose of the Merger is to expand Invitae s business through the acquisition of the products and services that CombiMatrix offers. Invitae is the larger of the two entities and will be the operating company within the combining companies. Invitae s board members will continue to hold all of the seats on the Invitae board of directors and CombiMatrix stockholders do not have any board appointment rights. Invitae s senior management will be continuing as senior management of the combined company.

The Merger will be accounted for using the acquisition method of accounting in accordance with FASB ASC 805, *Business Combinations*. Invitae will recognize and measure the assets acquired and liabilities assumed at their fair values at the acquisition date. Acquisition-related costs, which include advisory, legal, accounting, valuation, and other professional or consulting fees, will be expensed in the period incurred. As of the date of this prospectus/offer to exchange, the valuation studies necessary to estimate the fair values of the assets acquired and liabilities assumed are preliminary and have been performed based on publicly available benchmarking information as well as a variety of other assumptions, including market participant assumptions, as there are limitations on the type of information that can be exchanged between Invitae and CombiMatrix at this time. Until the Merger is complete, all the relevant information will not be known. Differences between preliminary estimates and the final acquisition accounting will occur.

The financial condition and results of operations of Invitae after completion of the Merger will reflect CombiMatrix after completion of the Merger, but will not be restated retroactively to reflect the historical financial condition or results of operations of CombiMatrix. The earnings of Invitae following completion of the Merger will reflect acquisition accounting adjustments, including the effect of changes in the carrying value for assets and liabilities on depreciation expense, amortization expense and interest expense. Goodwill will not be amortized but will be tested for impairment at least annually, and all tangible and intangible assets including goodwill will be tested for impairment when certain indicators are present. If, in the future, Invitae determines that tangible or intangible assets (including goodwill) are impaired, Invitae would record an impairment charge at that time.

# **Stock Exchange Listing**

Shares of Invitae common stock are listed on the NYSE. Invitae has submitted an application to the NYSE to list the shares of Invitae common stock that Invitae will issue in the Offer to holders of CombiMatrix Series F warrants.

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### THE MERGER AGREEMENT

Invitae is making the Offer in order to satisfy its obligations under the Merger Agreement, which provides for the acquisition, through the Merger, of CombiMatrix by Invitae. The following describes certain aspects of the Merger, including material provisions of the Merger Agreement. The following description of the Merger Agreement is subject to, and qualified in its entirety by, reference to the Merger Agreement, which is attached to this document as Annex A and is incorporated by reference into this document. You are urged to carefully read the Merger Agreement in its entirety.

#### Structure

Under the Merger Agreement, Merger Sub will merge with and into CombiMatrix, with CombiMatrix surviving as a wholly owned subsidiary of Invitae.

## **Completion and Effectiveness of the Merger**

The Merger will be completed as promptly as practicable after all of the conditions to completion of the Merger are satisfied or waived, including the approval of the stockholders of CombiMatrix and the successful completion of the Offer for CombiMatrix Series F warrants. Invitae and CombiMatrix are working to complete the Merger as quickly as practicable. However, Invitae and CombiMatrix cannot predict the exact timing of the completion of the Merger because it is subject to various conditions.

## **Merger Consideration and Exchange Ratio**

At the effective time of the Merger,

each share of CombiMatrix common stock outstanding immediately prior to completion of the Merger (other than shares of CombiMatrix common stock held by CombiMatrix as treasury or held by CombiMatrix, Merger Sub or any subsidiary of CombiMatrix) automatically will be converted into the right to receive a fraction of a share of Invitae common stock equal to the Merger Exchange Ratio described in more detail below;

each share of CombiMatrix Series F preferred stock outstanding immediately prior to completion of the Merger (other than shares of CombiMatrix Series F preferred stock held by CombiMatrix as treasury or held by CombiMatrix, Merger Sub or any subsidiary of CombiMatrix) automatically will be converted into the right to receive a number of shares of Invitae common stock equal the Merger Exchange Ratio multiplied by the number of shares of CombiMatrix common stock issuable upon conversion of one share of Series F preferred stock on the date immediately prior to the Merger;

each CombiMatrix RSU outstanding immediately prior to completion of the Merger will be fully accelerated to the extent of any applicable vesting period and converted into the right to receive a number of shares of Invitae common stock determined by multiplying the number of shares of CombiMatrix common stock that were subject to such CombiMatrix RSU by the Merger Exchange Ratio;

each in-the-money CombiMatrix stock option that is outstanding and unexercised immediately prior to completion of the Merger, whether or not vested or exercisable, will be fully accelerated to the extent of any applicable vesting period and converted into the right to receive a number of shares of Invitae common stock determined by multiplying the number of shares of CombiMatrix common stock underlying such CombiMatrix stock option by the Merger Exchange Ratio, minus the number of shares of Invitae common stock determined by dividing the aggregate exercise price for such option by the Invitae Trailing Average Share Value;

each out-the-money CombiMatrix stock option that is outstanding and unexercised immediately prior to completion of the Merger, whether or not vested or exercisable, will be cancelled and terminated without the right to receive any consideration; and

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although Invitae s obligation to proceed with the Merger is subject to achieving 90% participation in the Offer, each outstanding Series D warrant and Series F warrant to purchase shares of CombiMatrix common stock (other than those Series F warrants exchanged in the Offer or previously exercised) will be assumed by Invitae and will be converted into a warrant to purchase shares of Invitae common stock, with the exercise price and the number of shares of Invitae common stock subject to such warrants being adjusted appropriately to account for the Merger Exchange Ratio.

If any shares of CombiMatrix common stock, CombiMatrix RSUs, or options to purchase shares of CombiMatrix common stock outstanding prior to the Merger are unvested or are subject to a repurchase option or the risk of forfeiture, then the shares of Invitae common stock issued in exchange for such shares of CombiMatrix common stock, RSUs or options will be issued without regard to such vesting, restrictions, repurchase options or risk of forfeiture.

No fractional shares of Invitae common stock will be issued in connection with the Merger. Instead, each CombiMatrix stockholder, holder of CombiMatrix RSUs or holder CombiMatrix stock options who otherwise would be entitled to receive a fractional share of Invitae common stock (after aggregating all fractional shares of Invitae common stock issuable to such holder) will be entitled to payment in cash of the dollar amount (rounded to the nearest whole cent), without interest, determined by multiplying such fraction by the Invitae Trailing Average Share Value.

The Merger Exchange Ratio is calculated using a formula intended to allocate to existing CombiMatrix securityholders a percentage of the combined company. Based on CombiMatrix s and Invitae s capitalization as of September 26, 2017, the Merger Exchange Ratio is currently estimated to be between approximately 0.91 and 0.84 shares of Invitae s common stock. This estimate is subject to adjustment prior to closing of the Merger, including (i) adjustments to account for the issuance of any additional shares of CombiMatrix common stock prior to the consummation of the Merger, (ii) adjustments to account for CombiMatrix s net cash at the effective time of the Merger and (iii) adjustments to account for the number of CombiMatrix Series F warrants exchanged in the Offer, assumed by Invitae, or exercised prior to the closing of the Merger. For example, the estimated Merger Exchange Ratio of 0.91 was calculated assuming that 100% of the CombiMatrix Series F warrants are exchanged in the Offer. Based on the average closing price of \$9.491 per share of Invitae common stock on the NYSE for the 30 trading days prior to July 31, 2017, the date on which the Merger Agreement was executed, and estimated CombiMatrix net cash of negative \$0.8 million (the calculation of which includes a reduction for CombiMatrix transaction bonuses payable), the estimated Merger Exchange Ratio represented \$8.60 in value for each share of CombiMatrix common stock. These dollar values may fluctuate higher or lower prior to the closing of the Merger depending on fluctuations in the price of Invitae common stock on the NYSE. Also, a portion or all of the Series F warrants could be exercised prior to the closing of the Merger, which affects the computations of the Merger Exchange Ratio. If, instead of being exchanged, 100% of the CombiMatrix Series F warrants were exercised prior to the Merger, the Merger Exchange Ratio would be reduced to 0.84, representing \$8.00 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$2.3 million (which excludes warrant exercise proceeds). Alternatively, if none of the CombiMatrix Series F warrants are exchanged in the Offer or exercised prior to the Merger and all such warrants are assumed by Invitae, although Invitae s obligation to proceed with the Merger is subject to a participation level in the Offer of at least 90%, the Merger Exchange Ratio would be reduced to 0.87, representing \$8.25 in value for each share of CombiMatrix common stock, based on estimated CombiMatrix net cash of negative \$0.7 million.

Based on the estimates set forth above, in connection with the Merger and the Offer, Invitae expects to issue a maximum of 3,985,812 shares of common stock, including common stock underlying warrants and Invitae RSUs, to CombiMatrix securityholders, who, immediately after the Merger, are expected to own approximately 6.9% of the fully-diluted common stock of the combined company, with Invitae securityholders, whose shares of Invitae capital stock will remain outstanding after the Merger, owning approximately 93.1% of the fully-diluted common stock of the combined company. These estimates are based on the assumption that 100% of the CombiMatrix Series F warrants are

exchanged in the Offer and subject to adjustment.

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The Merger Exchange Ratio is the *greater of* **X** or **Y**, where:

### Calculation of X

**X** = The quotient obtained by dividing the Invitae Merger Shares by the CombiMatrix Outstanding Shares, where:

- a. CombiMatrix Outstanding Shares is the total number of shares of CombiMatrix capital stock outstanding immediately prior to the effective time of the Merger on a fully-diluted and an as-converted to common stock basis, assuming (i) the settlement of all CombiMatrix RSUs, whether unvested or vested, (ii) the cash exercise of each outstanding CombiMatrix option (to the extent such option is not an out-of-the-money option terminated in connection with the Merger), (iii) the cash exercise of all CombiMatrix Series F warrants (to the extent such warrants are not exchanged in the Offer or exercised prior to consummation of the Offer), (iv) the conversion of all CombiMatrix Series F preferred stock, and (v) the issuance of shares of CombiMatrix common stock in respect of all other options, warrants, convertible securities or rights to receive such shares; provided, however, that all shares of CombiMatrix common stock issuable upon exercise of CombiMatrix Series D warrants (so long as the terms of such warrants have not been modified following the date of the Merger Agreement), shares of CombiMatrix common stock issuable upon exercise of CombiMatrix Series F warrants that are exchanged in the Offer, and terminated CombiMatrix options will be excluded from this amount.
- b. Adjusted Aggregate Value is the sum of (i) \$27,000,000, plus or minus (ii) CombiMatrix s Net Cash (as defined below) at the effective time of the Merger.
- c. Invitae Merger Shares is the total number of shares of Invitae common stock determined by dividing (i) the Adjusted Aggregate Value by (ii) the Invitae Trailing Average Share Value.
- d. Invitae Trailing Average Share Value means the average closing price for shares of Invitae common stock on the NYSE for the immediately preceding period of 30 trading days prior to the date of the Merger Agreement.

#### **Example**

As an example, if Net Cash is \$0.00, the CombiMatrix Outstanding Shares amount is 3,750,000 and the Invitae Trailing Average Share Value is \$9.491, then **X** would be determined as follows:

The Merger Exchange Ratio calculated under  $\mathbf{X}$  would thus be 0.7586 shares of Invitae common stock issuable per share of CombiMatrix common stock. However, if the calculation of  $\mathbf{Y}$  (below) is greater than  $\mathbf{X}$ , then  $\mathbf{Y}$  will be used as the Merger Exchange Ratio.

### Calculation of Y

Y = The quotient obtained by dividing (i) the sum of \$8.25 minus the Adjustment Amount by (ii) the Invitae Trailing Average Share Value, where:

- a. Adjustment Amount means the quotient of:
  - 1. The sum of (i) the amount, if any, by which Net Cash (not taking into account any gross proceeds from exercises of CombiMatrix Series F warrants after the date of the Merger Agreement) is

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below (x) negative \$1 million if the aggregate payouts in shares of Invitae common stock (calculated using the Invitae Trailing Average Share Value) pursuant to the Transaction Bonus Payout Agreements will be greater than \$2,000,000, and otherwise (y) \$0.00, plus (ii) the product of \$8.25 multiplied by the sum, if any, of (x) any shares of CombiMatrix common stock that are issued or that become issuable (including upon any conversion or exercise of any securities) after the date of the Merger Agreement (other than pursuant to conversion or exercise of any securities outstanding as of the date of the Merger Agreement) plus (y) the excess, if any, of (A) the total number of shares of CombiMatrix common stock actually outstanding as of the date of the Merger Agreement over (B) the total number of shares of CombiMatrix common stock represented to be outstanding as of the date of the Merger Agreement by CombiMatrix, calculated in each instance on a fully diluted and as-converted/as-exercised to CombiMatrix common stock basis but excluding shares issuable upon the exercise of terminated CombiMatrix stock options or CombiMatrix warrants subject to the CombiMatrix Warrant Repurchase (as defined below); divided by

### 2. The CombiMatrix Outstanding Shares.

### **Example**

As an example, if Net Cash (excluding CombiMatrix Series F warrant proceeds) is negative \$1,285,000 (and the aggregate payouts in shares of Invitae common stock (calculated using the Invitae Trailing Average Share Value) pursuant to the CombiMatrix Transaction Bonus Payout Agreements will be greater than \$2,000,000), there are 20,000 shares of CombiMatrix common stock issued or that become issuable after the date of this Agreement (other than pursuant to conversion or exercise of any securities outstanding as of the date of this Agreement), the Invitae Trailing Average Share Value is \$9.491 and the CombiMatrix Outstanding Shares amount is 3,0000,000, then Y would be determined as follows:

The Merger Exchange Ratio calculated under  $\mathbf{Y}$  would thus be 0.8534 shares of Invitae common stock issuable per share of CombiMatrix common stock. However, if the calculation of  $\mathbf{X}$  (above) is greater than  $\mathbf{Y}$ , then  $\mathbf{X}$  will be used as the Merger Exchange Ratio.

The X method of calculation values CombiMatrix at \$27,000,000 in the aggregate, with adjustments for Net Cash, CombiMatrix RSU settlements, option exercises, outstanding preferred stock and warrant exercises. The Y method of calculation imputes an \$8.25 per share valuation, with adjustments thereafter for Net Cash and any new share issuances after the date of the Merger Agreement. One of the functions of the two separate Merger Exchange Ratio calculations is that the Y calculation acts as a floor price (although still subject to certain adjustments, including for working capital) preventing extraordinary reduction in the per share Merger consideration if less than 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement are tendered and Invitae elects to effect the Merger notwithstanding that the closing condition was not fulfilled, or if certain Series F warrants are exercised, both of which would cause dilution to existing CombiMatrix common stockholders.

### Determination of CombiMatrix s Net Cash; Merger Consideration Sensitivity Analysis

For purposes of determining the Merger Exchange Ratio, adjustments will be made to account for CombiMatrix s Net Cash (as calculated pursuant to the terms of the Merger Agreement) at the effective time of the Merger. CombiMatrix s Net Cash will be calculated shortly before the closing date of the Merger; provided, however, that current assets, current liabilities not triggered by the closing of the Merger, and long-term capital lease obligations may be calculated as of an earlier month-end date if the Merger closes mid-month and a mid-month calculation of such liabilities and assets would be impractical. The closing of the Merger could be delayed if Invitae and CombiMatrix are not able to agree upon the amount of CombiMatrix s Net Cash as of CombiMatrix s cash determination date.

Under the Merger Agreement, CombiMatrix s Net Cash is defined as the sum of (i) CombiMatrix s cash and cash equivalents (inclusive of any cash resulting from exercises of CombiMatrix options or Series F warrants), marketable securities, short-term investments, accounts receivable (less allowance for doubtful accounts), deposits (to the extent refundable to CombiMatrix), supplies, prepaid expenses, and other current assets (excluding deferred tax assets), in each case determined in a manner consistent with the Merger Agreement or the manner in which such items were historically determined and in accordance with CombiMatrix s audited financial statements and CombiMatrix s unaudited interim balance sheet, minus (ii) the sum of CombiMatrix s accounts payable, accrued expenses and other current liabilities (other than accrued expenses listed below, deferred rent and deferred tax liabilities), capital lease obligations, and all other liabilities (including any amounts payable for the CombiMatrix Warrant Repurchase, any amounts payable in satisfaction of CombiMatrix s obligations to purchase a tail insurance policy for directors and officers prior to closing of the Merger, and any amounts that will become payable to participants pursuant to the CombiMatrix severance plan), in each case as of such date and determined in a manner consistent with the Merger Agreement or the manner in which such items were historically determined and in accordance with CombiMatrix s audited financial statements and CombiMatrix s unaudited interim balance sheet, minus (iii) \$250,000 (representing CombiMatrix s normalized working capital), minus (iv) without double counting if otherwise included above, any unpaid fees and expenses (including any attorney s, accountant s, financial advisor s or finder s fees) incurred by CombiMatrix or any of its subsidiaries in connection with the Merger Agreement and the Merger and other transactions contemplated by the Merger Agreement or for which CombiMatrix or any of its subsidiaries is otherwise liable, minus (v) without double counting if otherwise included above, all amounts payable to any of CombiMatrix s employees, officers, directors, consultants, advisors and representatives in connection with the Merger Agreement and the Merger and other transactions contemplated by the Merger Agreement (including pursuant to the Transaction Bonus Plan), regardless of whether any recipient agrees to accept any portion of any such payment in equity or cash, minus (vi) any fees and expenses payable by CombiMatrix in connection with the resolution of disagreements regarding Net Cash by an independent auditor, plus or minus (as applicable) (vii) the amount of any transaction expense reimbursements owed to, or owed by, CombiMatrix pursuant to the Merger Agreement.

CombiMatrix s Net Cash balance at the determination date is subject to numerous factors, many of which are outside of CombiMatrix s control.

Any warrants exercised prior to the consummation of the Merger would increase the number of CombiMatrix Outstanding Shares and the related cash proceeds from such exercises would increase the Net Cash adjustment calculated under the X scenario above (but not the Y scenario). Similarly, Series F warrants that are not exchanged in the Offer would also increase the CombiMatrix Outstanding Shares (meaning the full amount of shares underlying Series F warrants not tendered would be added to the amount of CombiMatrix Outstanding Shares) and thus potentially adjust the aggregate Merger consideration. Below is a table showing how the participation percentage by the holders of the Series F warrants in the Offer and the amount of warrants separately exercised impacts the implied per share Merger consideration based on estimated CombiMatrix Net Cash of \$1.8 million (before taking into account in such Net Cash amount any transaction bonus payments or, as applicable, warrant exercise proceeds).

A condition to the closing of the Merger is that at least 90% of the Series F warrants outstanding immediately prior to the date of the Merger Agreement are tendered in the Offer; however, the table above includes scenarios where less than 90% have tendered, which presumes Invitae has waived this closing condition under that circumstance. To the extent Series F warrants neither tender nor exercise and the Merger occurs, the shares underlying those warrants are included in the fully diluted shares of CombiMatrix common stock issued and outstanding for the purpose of the table computations.

#### **Invitae Common Stock**

Each share of Invitae common stock issued and outstanding at the closing of the Merger will remain issued and outstanding and those shares will be unaffected by the Merger. Invitae stock options, restricted stock units and warrants issued and outstanding at the closing of the Merger will also remain issued and outstanding and unaffected by the Merger. Immediately after the Merger, Invitae securityholders are expected to own approximately 93.1% of the fully-diluted common stock of the combined company.

### **Procedures for Exchanging CombiMatrix Stock Certificates**

At the effective time of the Merger, American Stock Transfer & Trust Company, LLC, as the exchange agent for the Merger, will establish an exchange fund to hold the shares of Invitae common stock to be issued to CombiMatrix stockholders in connection with the Merger.

Promptly after the effective time of the Merger, the exchange agent will mail to each holder of record of CombiMatrix capital stock a letter of transmittal and instructions for surrendering the record holder s stock certificates in exchange for the shares of Invitae common stock. Upon proper surrender of CombiMatrix stock certificates together with a properly completed and duly executed letter of transmittal in accordance with the exchange agent s instructions, the holder of such CombiMatrix stock certificates will be entitled to receive shares representing the number of whole shares of Invitae common stock issuable to such holder pursuant to the Merger and cash in lieu of any fractional share of Invitae common stock issuable to such holder. The surrendered certificates representing CombiMatrix capital stock will be cancelled.

After the effective time of the Merger, each certificate representing shares of CombiMatrix capital stock that has not been surrendered will represent only the right to receive shares of Invitae common stock issuable pursuant to the Merger and cash in lieu of any fractional share of Invitae common stock to which the holder of any such certificate is entitled. No interest will be paid or accrued on any cash in lieu of fractional shares payable to holders of CombiMatrix stock certificates.

Any holder or former holder of CombiMatrix capital stock may be subject to withholding under the Code, or under another provision of state, local or foreign tax law. To the extent such amounts are withheld and paid to the appropriate governmental entity, they will be treated as having been paid to the person to whom such amounts would otherwise have been paid.

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HOLDERS OF COMBIMATRIX CAPITAL STOCK SHOULD NOT SEND IN THEIR COMBIMATRIX STOCK CERTIFICATES UNTIL THEY RECEIVE A LETTER OF TRANSMITTAL FROM THE EXCHANGE AGENT WITH INSTRUCTIONS FOR THE SURRENDER OF COMBIMATRIX STOCK CERTIFICATES.

#### **Fractional Shares**

No fractional shares of Invitae common stock will be issuable pursuant to the Merger to CombiMatrix stockholders, holders of CombiMatrix RSUs or holders of CombiMatrix stock options. Instead, each CombiMatrix stockholder, holder of CombiMatrix RSUs or holder of CombiMatrix stock options who would otherwise be entitled to receive a fraction of a share of Invitae common stock, after aggregating all fractional shares of Invitae common stock issuable to such holder, will be entitled to receive a cash payment in lieu of such fractional shares equal to the dollar amount (rounded to the nearest whole cent), without interest, determined by multiplying such fraction by the Invitae Trailing Average Share Value.

### **Representations and Warranties**

The Merger Agreement contains customary representations and warranties made by Invitae, Merger Sub and CombiMatrix relating to their respective businesses, as well as other facts pertinent to the Merger. These representations and warranties are subject to materiality, knowledge and other similar qualifications in many respects and expire at the effective time of the Merger or termination of the Merger Agreement, as further described below. The representations and warranties of each of Invitae, Merger Sub and CombiMatrix have been made solely for the benefit of the other parties and those representations and warranties should not be relied on by any other person. In addition, those representations and warranties may be intended not as statements of actual fact, but rather as a way of allocating risk among the parties, may have been modified by the disclosure schedules delivered in connection with the Merger Agreement, are subject to the materiality standard described in the Merger Agreement, which may differ from what may be viewed as material by you, will not survive completion of the Merger and cannot be the basis for any claims under the Merger Agreement by the other parties after termination of the Merger Agreement, and were made only as of the date of the Merger Agreement or another date as is specified in the Merger Agreement.

CombiMatrix made a number of representations and warranties to Invitae and Merger Sub in the Merger Agreement, including representations and warranties relating to the following matters:

subsidiaries; due organization;

certificate of incorporation; bylaws; charters; codes of conduct;

capitalization;

SEC filings; financial statements;

absence of changes;

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title to assets;
real property; leaseholds;
intellectual property;
agreements, contracts and commitments;
undisclosed liabilities;
compliance; permits; restrictions; regulatory matters;
tax matters;
employee and labor matters; benefit plans;

environmental matters;
insurance;
legal proceedings; orders;
authority; binding nature of agreement;
inapplicability of anti-takeover statutes;
vote required;
non-contravention; consents;
bank accounts; receivables;
financial advisor;
opinion of financial advisor;
shell company status;
transactions with affiliates;
code of ethics;
disclosure; and

exclusivity of representations.

Significant portions of CombiMatrix s representations and warranties are qualified as to materiality or material adverse effect. Under the Merger Agreement, a material adverse effect with respect to CombiMatrix means any effect, change, event, circumstance or development that has occurred prior to the date of determination of the occurrence of such material adverse effect, that is or could reasonably be expected to be materially adverse to or has or could reasonably be expected to have or result in a material adverse effect on (i) the business, condition (financial or otherwise),

capitalization, assets (including intellectual property), operations or financial performance of CombiMatrix and its subsidiaries, taken as a whole or (ii) the ability of CombiMatrix to consummate the Merger or the other transactions contemplated by the Merger Agreement or perform any of its covenants or obligations under the Merger Agreement in all material respects, except that none of the following, as they apply to CombiMatrix and its subsidiaries, will be taken into account in determining whether there has been a material adverse effect (except as expressly provided):

any rejection by a governmental body of a registration or filing by CombiMatrix relating to CombiMatrix s intellectual property rights;

any change in the cash position of CombiMatrix that results from operations in the ordinary course of business;

conditions generally affecting the industries in which CombiMatrix and its subsidiaries participate or the U.S. or global economy or capital markets as a whole, to the extent that such conditions do not have a disproportionate impact on CombiMatrix and its subsidiaries, taken as a whole;

any failure by CombiMatrix or any of its subsidiaries to meet internal projections or forecasts or third-party revenue or earnings predictions for any period ending (or for which revenues or earnings are released) on or after the date of the Merger Agreement, provided that any such effect, change, event, circumstance or development causing or contributing to any such failure to meet projections or predictions or any change in stock price or trading volume may constitute a material adverse effect of CombiMatrix and may be taken into account in determining whether a material adverse effect has occurred;

the execution, delivery, announcement or performance of obligations under the Merger Agreement or the announcement, pendency or anticipated consummation of the Merger;

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any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof, to the extent that any such event does not have a disproportionate impact on CombiMatrix and its subsidiaries taken as a whole;

changes in regulatory, legislative or political conditions in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on CombiMatrix and its subsidiaries taken as a whole;

changes in conditions in the financial markets, credit markets or capital markets in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on CombiMatrix and its subsidiaries taken as a whole, including (i) changes in interest rates or credit ratings in the United States or any other country, (ii) changes in exchange rates for the currencies of any country, or (iii) any suspension of trading in securities (whether equity, debt, derivative or hybrid securities) generally on any securities exchange or over-the-counter market operating in the United States or any other country or region in the world; or

any changes after the date of the Merger Agreement in U.S. GAAP or applicable laws, to the extent that such changes do not have a disproportionate impact on CombiMatrix and its subsidiaries taken as a whole. Invitae and Merger Sub made a number of representations and warranties to CombiMatrix in the Merger Agreement, including representations and warranties relating to the following subject matters:

organization; authority; enforceability;
non-contravention; governmental consents;
SEC documents;
compliance; permits;
no financial advisor;
legal proceedings; orders;
shares of common stock;
no vote of Invitae stockholders;

lack of ownership of shares;	
M 01 11 11 11	
Merger Sub capitalization;	

disclosure; and

exclusivity of representations.

Significant portions of Invitae s representations and warranties are qualified as to materiality or material adverse effect. Under the Merger Agreement, a material adverse effect with respect to Invitae means any effect, change, event, circumstance or development that has occurred prior to the date of determination of the occurrence of such material adverse effect, that is or could reasonably be expected to be materially adverse to or has or could reasonably be expected to have or result in a material adverse effect on (i) the business, condition (financial or otherwise), capitalization, assets, operations or financial performance of Invitae or (ii) the ability of Invitae to consummate the Merger or the other transactions contemplated by the Merger Agreement or perform any of its covenants or obligations under the Merger Agreement in all material respects, except that none of the following, as they apply to Invitae, will be taken into account in determining whether there has been a material adverse effect (except as expressly provided):

conditions generally affecting the industries in which Invitae participates or the U.S. or global economy or capital markets as a whole, to the extent that such conditions do not have a disproportionate impact on Invitae;

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any failure by Invitae to meet internal projections or forecasts or third-party revenue or earnings predictions for any period ending (or for which revenues or earnings are released) on or after the date of the Merger Agreement or any change in the price or trading volume of Invitae common stock, provided that any such effect, change, event, circumstance or development causing or contributing to any such failure to meet projections or predictions or any change in stock price or trading volume may constitute a material adverse effect of Invitae and may be taken into account in determining whether a material adverse effect has occurred;

the execution, delivery, announcement or performance of obligations under the Merger Agreement or the announcement, pendency or anticipated consummation of the Merger;

any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof, to the extent that any such event does not have a disproportionate impact on Invitae;

changes in regulatory, legislative or political conditions in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on Invitae;

changes in conditions in the financial markets, credit markets or capital markets in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on Invitae, including (i) changes in interest rates or credit ratings in the United States or any other country, (ii) changes in exchange rates for the currencies of any country, or (iii) any suspension of trading in securities (whether equity, debt, derivative or hybrid securities) generally on any securities exchange or over-the-counter market operating in the United States or any other country or region in the world; or

any changes after the date of the Merger Agreement in U.S. GAAP or applicable laws, to the extent that such changes do not have a disproportionate impact on Invitae.

### Covenants; Conduct of Business Pending the Merger

During the period commencing on July 31, 2017 and ending at the earlier of the date of termination of the Merger Agreement and the effective time of the Merger, CombiMatrix agreed that it will conduct its business in the ordinary course and in compliance with all applicable laws, rules, regulations, permits and certain material contracts and will provide Invitae with prompt notice upon the occurrence of certain events or discovery of certain conditions, facts or circumstances.

CombiMatrix also agreed that prior to the earlier of termination and the effective time of the Merger, subject to certain limited exceptions set forth in the Merger Agreement, without the consent of Invitae, it would not and would not permit any of its subsidiaries to:

declare, accrue, set aside or pay any dividend or make any other distribution in respect of any shares of CombiMatrix capital stock or repurchase, redeem or otherwise reacquire any shares of its capital stock or other securities except for shares of CombiMatrix stock from terminated

employees;

sell, issue or grant, or authorize the issuance of any capital stock or other security (except for shares of CombiMatrix common stock issued upon the valid exercise of CombiMatrix options, CombiMatrix RSUs or CombiMatrix warrants outstanding as of the date of the Merger Agreement), any option, warrant or right to purchase any capital stock or any other security, or any instrument convertible into or exchangeable for any capital stock or other security;

amend the certificate of incorporation, bylaws or other charter or organizational documents of CombiMatrix, or effect or be a party to any merger, consolidation, share exchange, business combination, recapitalization, reclassification of shares, stock split, reverse stock split or similar transaction except as related to the transactions contemplated by the Merger Agreement;

form any subsidiary or acquire any equity interest or other interest in any other entity;

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lend money to any person other than in the ordinary course of business, incur or guarantee any indebtedness for borrowed money, issue or sell any debt securities or options, warrants, calls or other rights to acquire any debt securities, guarantee any debt securities of others, or, other than in the ordinary course of business, make any capital expenditure or commitment;

adopt, establish or enter into any CombiMatrix employee benefit plan, cause or permit any CombiMatrix employee benefit plan to be amended other than as required by law or in order to make amendments for the purposes of compliance with Section 409A of the Code, pay any bonus or make any profit-sharing or similar payment to, or increase the amount of the wages, salary, commissions, fringe benefits or other compensation or remuneration payable to, any of its directors, employees or consultants, or pay or increase the severance or change of control benefits offered to any current or new employee or consultant, subject to certain exceptions.

enter into any material transaction outside the ordinary course of business;

purchase, lease, license or otherwise acquire, or sell, lease, license or otherwise dispose of, any of its assets, rights or properties, or grant any encumbrance with respect to such assets, rights or properties, in each case, other than in the ordinary course of business consistent with past practices;

make, change or revoke any material tax election, file any material amendment to any tax return, adopt or change any accounting method in respect of taxes, change any annual tax accounting period, enter into any tax allocation agreement, tax sharing agreement or tax indemnity agreement, other than commercial contracts entered into in the ordinary course of business with vendors, customers or landlords, enter into any closing agreement with respect to any tax, settle or compromise any claim, notice, audit report or assessment in respect of material taxes, apply for or enter into any ruling from any tax authority with respect to taxes, surrender any right to claim a material tax refund, or consent to any extension or waiver of the statute of limitations period applicable to any material tax claim or assessment;

enter into, amend or terminate any material contract;

materially change pricing, royalties or other payments set or charged to its customers or licensees, or materially increase pricing, royalties or other payments set or charged by vendors or persons who have licensed intellectual property to CombiMatrix; or

agree, resolve or commit to do any of the foregoing.

### **Non-Solicitation**

The Merger Agreement contains provisions prohibiting CombiMatrix from seeking a competing transaction, subject to specified exceptions described below. Under these non-solicitation provisions, CombiMatrix has agreed that neither it nor its subsidiaries, nor any of their officers, directors, employees, representatives, advisors, attorneys, accountants or agents will directly or indirectly: (i) solicit, initiate, respond to or take any action to facilitate or encourage any

inquiries or the communication, making, submission or announcement of any competing proposal or inquiry or take any action that could reasonably be expected to lead to a competing proposal or inquiry; (ii) enter into or participate in any discussions or negotiations with any person with respect to any competing proposal or inquiry; (iii) furnish any information regarding CombiMatrix or any of its subsidiaries to any person in connection with, in response to, relating to or for the purpose of assisting with or facilitating a competing proposal or inquiry; (iv) approve, endorse or recommend any competing proposal (subject to the terms and conditions of the Merger Agreement); (v) execute or enter into any letter of intent or similar document or any contract contemplating or otherwise relating to any competing proposal; or (vi) grant any waiver or release under any confidentiality, standstill or similar agreement (other than to Invitae).

However, prior to the approval of the Merger Proposal, (i) CombiMatrix may enter into discussions or negotiations with any person that has made (and not withdrawn) a bona fide, unsolicited, competing proposal,

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which CombiMatrix s board of directors determines in good faith, after consultation with its independent financial advisor, if any, and its outside legal counsel, constitutes, or would reasonably be expected to result in, a superior competing proposal, and (ii) thereafter furnish to such person non-public information regarding CombiMatrix pursuant to an executed confidentiality agreement containing provisions (including nondisclosure provisions, use restrictions, non-solicitation provisions, no hire provisions and standstill provisions) at least as favorable to CombiMatrix as those contained in the confidentiality agreement existing between CombiMatrix and Invitae, but in each case of the foregoing clauses (i) and (ii), only if: (A) neither CombiMatrix nor any representative of CombiMatrix has breached its non-solicitation obligations; (B) the board of directors of CombiMatrix determines in good faith based on the advice of outside legal counsel, that the failure to take such action would reasonably be expected to result in a breach of the fiduciary duties of the CombiMatrix board of directors under applicable laws; (C) at least five business days prior to furnishing any such non-public information to, or entering into discussions with, such person, CombiMatrix gives Invitae written notice of the identity of such person, the terms and conditions of any proposals or offers (including, if applicable, copies of any written requests, proposals or offers, including proposed agreements) made thereby, and of CombiMatrix s intention to furnish nonpublic information to, or enter into discussions with, such person; and (D) at least five business days prior to furnishing any such non-public information to such person, CombiMatrix furnishes such non-public information to Invitae (to the extent such non-public information has not been previously furnished by CombiMatrix to Invitae). Without limiting the generality of the foregoing, CombiMatrix has acknowledged and agreed that, in the event any representative of CombiMatrix (whether or not such representative is purporting to act on behalf of CombiMatrix) takes any action that, if taken by CombiMatrix, would constitute a breach of the non-solicitation obligations of CombiMatrix, the taking of such action by such representative shall be deemed to constitute a breach of the non-solicitation obligations of CombiMatrix for purposes of the Merger Agreement.

CombiMatrix will notify Invitae no later than 24 hours after receipt of any competing proposal or inquiry, and any such notice will be made orally and in writing and will include the identity of the person making or submitting such competing proposal or inquiry, the terms thereof, and any written materials submitted therewith. CombiMatrix will keep Invitae fully informed, on a current basis, of the status and material developments (including any changes to the terms) of such competing proposal or inquiry and will deliver to Invitae copies of any written materials submitted with such competing proposal or inquiry.

A competing proposal is any of the following proposals, indications of interest or offers, other than transactions contemplated by the Merger Agreement:

any merger, consolidation, amalgamation, share exchange, business combination, issuance of securities, acquisition of securities, reorganization, recapitalization, tender offer, exchange offer or other similar transaction in which (i) CombiMatrix is a constituent corporation, (ii) a person or group (as defined in the Exchange Act and the rules promulgated thereunder) of persons directly or indirectly acquires beneficial or record ownership of securities representing more than 20% of the outstanding securities of any class of voting securities of CombiMatrix or any of its subsidiaries, or (iii) CombiMatrix or any of its subsidiaries of CombiMatrix or any of its subsidiaries;

any sale, lease, exchange, transfer, license, acquisition or disposition of any business or businesses or assets that constitute or account for 20% or more of the consolidated book value or the fair market value of the assets of CombiMatrix and its subsidiaries, taken as a whole; or

any liquidation or dissolution of CombiMatrix.

A superior competing proposal is any unsolicited bona fide competing proposal at a 50% threshold (and excluding a dissolution or liquidation of CombiMatrix) made by a third party that the board of directors of CombiMatrix determines, in its reasonable, good faith judgment, after obtaining and taking into account such matters that it deems relevant following consultation with its outside legal counsel and financial advisor, if any (i) is reasonably likely to be more favorable, from a financial point of view, to the CombiMatrix stockholders

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than the terms of the Merger; and (ii) is reasonably capable of being consummated; provided, however, that any such offer shall not be deemed to be a superior competing proposal if (A) any financing required to consummate the transaction contemplated by such offer is not committed and is not reasonably capable of being obtained or (B) if the consummation of such transaction is contingent on any such financing being obtained.

Invitae may terminate the Merger Agreement if the CombiMatrix board of directors (each such action, a change of recommendation by the CombiMatrix board of directors):

failed to recommend that the CombiMatrix stockholders vote to adopt and approve the Merger Proposal or has for any reason withdrawn or modified in a manner adverse to Invitae its recommendation that the CombiMatrix stockholders vote to adopt and approve the Merger Proposal;

failed to include its recommendation that the CombiMatrix stockholders vote to adopt and approve the Merger Proposal in the related proxy statement/prospectus;

approved, endorsed or recommended a competing proposal; or

entered into a letter of intent or similar document or a definitive agreement for a competing proposal. If the Merger Agreement is terminated in connection with these provisions and a bona fide competing proposal had been publicly announced or disclosed or otherwise communicated to the CombiMatrix board of directors prior to the CombiMatrix special meeting, CombiMatrix has agreed to pay Invitae a fee of \$1,400,000 (net of expense reimbursement previously paid). See the section entitled *The Merger Agreement Termination of the Merger Agreement and Termination Fee* below for a more complete discussion of the termination fees.

#### **Disclosure Documents**

As promptly as practicable following the date of the Merger Agreement, Invitae and CombiMatrix agreed to prepare and cause to be filed with the SEC a proxy statement/prospectus in connection therewith and Invitae agreed to prepare and cause to be filed with the SEC a registration statement on Form S-4 in connection with the registration under the Securities Act of the shares of Invitae common stock to be issued pursuant to the Merger. Each of Invitae and CombiMatrix agreed to use commercially reasonable efforts to cause the registration statement to become effective as promptly as practicable. Prior to the registration statement on Form S-4 being declared effective, CombiMatrix and Invitae each agreed to (i) deliver tax representation letters to Stradling and Pillsbury, and (ii) use its commercially reasonable efforts to cause its respective counsel to deliver to it a tax opinion satisfying the requirements of Item 601(b)(8) of Regulation S-K under the Securities Act. Each of Invitae and CombiMatrix agreed to use their commercially reasonable efforts to cause the registration statement on Form S-4 and the related proxy statement/prospectus to comply with the applicable rules and regulations promulgated by the SEC. Invitae and CombiMatrix each agreed to ensure that the proxy statement/prospectus will not, at the time that the proxy statement/prospectus or any amendment or supplement thereto is filed with the SEC or is first mailed to the stockholders of CombiMatrix, at the time of the CombiMatrix stockholders meeting and at the effective time of the Merger, contain any untrue statement of a material fact or omit to state any material fact required to be stated herein or necessary in order to make the statements made herein, in light of the circumstances under which they were made, not misleading; provided, that Invitae did not make such assurances with respect to statements made in the proxy

statement/prospectus by CombiMatrix or based on information furnished by CombiMatrix for inclusion herein, and that CombiMatrix did not make such assurances with respect to statements made in the proxy statement/prospectus by Invitae or based on information furnished by Invitae for inclusion therein. Each of Invitae, Merger Sub and CombiMatrix agreed to furnish all information concerning itself and its subsidiaries, as applicable, to the other parties as the other parties may reasonably request in connection with such actions and the preparation of the registration statement on Form S-4 and the proxy statement/prospectus. CombiMatrix agreed to use commercially reasonable efforts to cause the proxy statement/prospectus to be mailed to its stockholders as promptly as practicable after the registration statement on Form S-4 is declared effective by the SEC.

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In connection with the Offer, Invitae and CombiMatrix agreed to cooperate with each other regarding, and to prepare, offering documents, and to cause such offering to comply as to form in all material respects with the applicable provisions of the Securities Act and the Exchange Act, for the purpose of effecting and consummating the Offer. Invitae and CombiMatrix agreed that the offering documents will include (i) an offer to exchange document describing the material terms of the Offer, (ii) a statement on Schedule TO with respect to the Offer, if required, (iii) a registration statement on Form S-4 registering the Offer, (iv) a statement by the CombiMatrix board of directors describing its recommendation that the CombiMatrix stockholders vote to adopt and approve the Merger Proposal and the requirement that at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement must be exchanged in the Offer, including that such requirement is a condition to the obligations of Invitae and Merger Sub to effect the Merger, and (v) all ancillary documents related to the Offer, including exhibits, press releases, letters of transmittal, notices and announcements.

Invitae agreed, substantially contemporaneously with, or as promptly as practicable after, the filing of the registration statement on Form S-4 relating to the Merger to file with the SEC the registration statement on Form S-4 registering the Offer, of which this prospectus/offer to exchange is a part. Each of Invitae and CombiMatrix agreed to use commercially reasonable efforts to cause the registration statement to become effective as promptly as practicable. Prior to the registration statement on Form S-4 registering the Offer being declared effective, CombiMatrix and Invitae each agreed to (i) deliver tax representation letters to Stradling and Pillsbury and (ii) use its commercially reasonable efforts to cause its respective counsel to deliver to it a tax opinion satisfying the requirements of Item 601(b)(8) of Regulation S-K under the Securities Act. Each of Invitae and CombiMatrix agreed use commercially reasonable efforts to cause the registration statement on Form S-4 registering the Offer and the other offering documents to comply with the applicable rules and regulations promulgated by the SEC. Invitae and CombiMatrix each agreed to ensure that the offering documents will not, as of the date any offering document is first mailed to holders of CombiMatrix Series F warrants and at the effective time of the Merger, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading; provided, that Invitae did not make such assurances with respect to statements made in any offering document by CombiMatrix or based on information furnished by CombiMatrix for inclusion therein, and that CombiMatrix did not make such assurances with respect to statements made in any offering document by Invitae or based on information furnished by Invitae for inclusion therein. Each of Invitae, Merger Sub and CombiMatrix agreed to furnish all information concerning itself and its subsidiaries, as applicable, to the other parties as the other parties may reasonably request in connection with such actions and the preparation of the registration statement on Form S-4 registering the Offer. The parties agreed to cause the offering documents to be mailed to the holders of the CombiMatrix Series F warrants when appropriate after the registration statement on Form S-4 registering the Offer becomes effective, in order to permit Invitae to conduct the Offer in a timely manner and consistent with applicable regulations and requirements under securities laws, including the Exchange Act.

### **Regulatory Approvals Required for the Merger**

Invitae and CombiMatrix have agreed to cooperate and use commercially reasonable efforts to obtain all regulatory approvals required to complete the transactions contemplated by the Merger Agreement. Invitae must comply with applicable federal and state securities laws and the rules and regulations of the NYSE in connection with the issuance of shares of Invitae common stock and RSUs and the filing of the related proxy statement/prospectus with the SEC.

The Merger Agreement also provides that CombiMatrix and Invitae will file any notification and report forms required to be filed under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, and respond as promptly as practicable to any inquiries or requests received from the Federal Trade Commission or the Department of Justice for information or documentation or any inquiries or requests received from any other governmental body in

connection with antitrust or competition matters.

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Although neither Invitae nor CombiMatrix knows of any reason why these regulatory approvals cannot be obtained in a timely manner, neither Invitae nor CombiMatrix can be certain when or if they will be obtained. Invitae s and CombiMatrix s obligations under the Merger Agreement are subject to certain conditions. See the section entitled *The Merger Agreement Conditions to the Completion of the Merger.* 

### CombiMatrix Stock Options, RSUs and Warrants

At the effective time of the Merger, (i) each in-the-money CombiMatrix stock option that is outstanding and unexercised immediately prior to completion of the Merger, whether or not vested or exercisable, will be fully accelerated to the extent of any applicable vesting period and converted into the right to receive a number of shares of Invitae common stock determined by multiplying the number of shares of CombiMatrix common stock underlying such CombiMatrix stock option by the Merger Exchange Ratio, minus the number of shares of Invitae common stock determined by dividing the aggregate exercise price for such option by the Invitae Trailing Average Share Value, (ii) each out-the-money CombiMatrix stock option that is outstanding and unexercised immediately prior to completion of the Merger, whether or not vested or exercisable, will be cancelled and terminated without the right to receive any consideration, (iii) each CombiMatrix RSU outstanding immediately prior to completion of the Merger will be fully accelerated to the extent of any applicable vesting period and converted into the right to receive a number of shares of Invitae common stock determined by multiplying the number of shares of CombiMatrix common stock that were subject to such CombiMatrix RSU by the Merger Exchange Ratio, and (iv) each outstanding Series D warrant and Series F warrant to purchase shares of CombiMatrix capital stock (other than those warrants exchanged in the Offer or previously exercised) will be assumed by Invitae and will be converted into a warrant to purchase shares of Invitae common stock, although Invitae s obligation to proceed with the Merger is subject to a participation level in the Offer of at least 90%.

Although Invitae s obligation to proceed with the Merger is subject to a participation level in the Offer of at least 90%, all rights and obligations with respect to each CombiMatrix Series D warrant or Series F warrant outstanding at the closing of the Merger will be assumed by Invitae in accordance with their terms, with the number of underlying shares and exercise price as adjusted for the Merger Exchange Ratio. Invitae stockholders will continue to own and hold their existing shares of Invitae common stock. Accordingly, from and after the effective time of the Merger each Series D warrant or Series F warrant assumed by Invitae may be exercised solely for shares of Invitae common stock. The number of shares of Invitae common stock subject to each outstanding CombiMatrix Series D warrant or Series F warrant or Series F warrant by Invitae will be determined by multiplying the number of shares of CombiMatrix common stock that were subject to such CombiMatrix Series D warrant or Series F warrant by the Merger Exchange Ratio. The per share exercise price for the Invitae common stock issuable upon exercise of each CombiMatrix Series D warrant or Series F warrant, as applicable, by the Merger Exchange Ratio. Any restriction on any CombiMatrix Series D warrant or Series F warrant assumed by Invitae will continue in full force and effect and the term and other provisions of such CombiMatrix Series D warrant or Series F warrant will otherwise remain unchanged.

Immediately after the announcement of the Merger, CombiMatrix repurchased one-half of the outstanding and unexercised CombiMatrix Series A warrants, Series B warrants, Series C warrants, Series E warrants and PIPE warrants pursuant to the terms of that certain CombiMatrix Common Stock Purchase Warrants Repurchase Agreement dated July 11, 2016. Upon the closing of the Merger, CombiMatrix will repurchase the remainder of the outstanding and unexercised CombiMatrix Series A warrants, Series B warrants, Series E warrants and PIPE warrants (such warrant repurchase referred to herein as the CombiMatrix Warrant Repurchase ). From and after the effective time of the Merger, holders of CombiMatrix Series A warrants, Series B warrants, Series C warrants, Series E warrants and PIPE warrants will have no further rights with respect thereto.

#### Indemnification and Insurance for CombiMatrix Directors and Officers

Under the Merger Agreement, from the closing of the Merger through the sixth anniversary of the closing, the surviving corporation in the Merger will indemnify and hold harmless each person who was at the time of signing the Merger Agreement, or was at any time prior to the date of the Merger Agreement, or who becomes prior to the effective time of the Merger, a director or officer of CombiMatrix, against all claims, losses, liabilities, damages, judgments, fines and reasonable fees, costs and expenses, including attorneys fees and disbursements incurred in connection with any claim, action, suit, proceeding or investigation, whether civil, criminal, administrative or investigative, arising out of or pertaining to the fact that such person is or was a director or officer of CombiMatrix, whether asserted or claimed prior to, at or after the effective time of the Merger, to the fullest extent permitted under the DGCL for directors or officers of Delaware corporations. In addition, each such person will be entitled to advancement of expenses incurred in the defense of any such claim, action, suit, proceeding or investigation from the surviving corporation upon receipt by the surviving corporation from such person of a request for such advancement; provided, that any person to whom expenses are advanced provides an undertaking, to the extent then required by the DGCL, to repay such advances if it is ultimately determined that such person is not entitled to indemnification.

Under the Merger Agreement, the certificate of incorporation and bylaws of the surviving corporation in the Merger will contain provisions no less favorable with respect to indemnification, advancement of expenses and exculpation of present and former directors and officers of CombiMatrix than are presently set forth in the certificate of incorporation and bylaws of CombiMatrix, which provisions may not be amended, modified or repealed for a period of six years time from the closing of the Merger in a manner that would adversely affect the rights thereunder of individuals who, at or prior to the closing, were officers or directors of CombiMatrix.

The Merger Agreement also provides that prior to the closing of the Merger, CombiMatrix will purchase an insurance policy with an effective date as of the effective date of the Merger which maintains in effect for six years from the effective date of the Merger the current directors and officers liability insurance policies maintained by CombiMatrix.

### **CombiMatrix Transaction Bonus Payout Agreements**

Under the Merger Agreement, Invitae and CombiMatrix agreed that (i) bonus payments under the CombiMatrix Transaction Bonus Plan will be paid in cash to all participants in accordance with the terms of the CombiMatrix Transaction Bonus Plan, other than the executive officers, the vice president of billing and reimbursement and the directors of CombiMatrix, (ii) pursuant to the Transaction Bonus Payout Agreements entered into with each of the executive officers and the vice president of billing and reimbursement of CombiMatrix concurrently with the execution of the Merger Agreement, the bonus payments for each such executive officer and vice president of billing and reimbursement will be paid in Invitae RSUs (to be settled in shares of Invitae common stock) calculated using the Invitae Trailing Average Share Value and subject to time-based vesting and/or settlement with acceleration upon a change in control of Invitae and/or certain other events as set forth in the applicable Transaction Bonus Payout Agreement, and (iii) pursuant to the Transaction Bonus Payout Agreements entered into with each of the outside directors of CombiMatrix concurrently with the execution of the Merger Agreement, the bonus payments for each such director will be paid in unrestricted shares of Invitae Common Stock calculated using the Invitae Trailing Average Share Value. To the extent such shares of common stock are not covered by a registration statement that is effective before the closing date, Invitae also covenanted to use commercially reasonable efforts to register for resale such unrestricted shares of common stock or shares of common stock underlying RSUs.

### **Additional Agreements**

Each of CombiMatrix and Invitae has agreed to, among other things:

use its commercially reasonable efforts to cause to be taken all actions necessary to consummate the Merger and any other transaction contemplated by the Merger Agreement;

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reasonably cooperate with the other parties and provide the other parties with such assistance as may be reasonably requested for the purpose of facilitating the performance by each party of its respective obligations under the Merger Agreement and to enable the combined entity to continue to meet its obligations under the Merger Agreement following the closing;

make all filings and other submissions (if any) and give all notices (if any) required to be made and given by such party in connection with the Merger and any other transaction contemplated by the Merger Agreement;

use its commercially reasonable efforts to obtain each consent (if any) reasonably required to be obtained pursuant to any applicable law, contract or otherwise by such party in connection with the Merger or any other transaction contemplated by the Merger Agreement or for any such contract to remain in full force and effect;

use its commercially reasonable efforts to lift any injunction prohibiting, or any other legal bar to, the Merger and any other transaction contemplated by the Merger Agreement;

use its commercially reasonable efforts to satisfy the conditions precedent to the consummation of the Merger Agreement; and

use its commercially reasonable efforts to cause the Merger, together with the Offer, to qualify, and has agreed not to, and not to permit or cause any affiliate or any subsidiary to, take any actions or cause any action to be taken which would reasonably be expected to prevent the Merger, together with the Offer, from being qualified, as a reorganization under Section 368(a) of the Code.

### **Conditions to the Completion of the Merger**

The respective obligations of Invitae and CombiMatrix to complete the Merger and the other transactions contemplated by the Merger Agreement are subject to the satisfaction or waiver of various conditions that include, in addition to other customary closing conditions, the following:

the registration statement on Form S-4 registering the shares to be issued in connection with the Merger and the registration statement on Form S-4 registering the Offer, of which this prospectus/offer to exchange is a part, must have been declared effective by the SEC in accordance with the Securities Act and must not be subject to any stop order or proceeding, or any proceeding threatened by the SEC, seeking a stop order;

there must not have been issued any temporary restraining order, preliminary or permanent injunction or other order preventing the consummation of the Merger or the Offer by any court of competent jurisdiction or other governmental entity of competent jurisdiction that remains in effect, and there must be no law, statute, rule, regulation, ruling or decree in effect which has the effect of making the consummation of the Merger or the Offer illegal;

the holders of a majority of the outstanding CombiMatrix common stock must have adopted and approved the Merger Proposal;

any waiting period applicable to the consummation of the Merger and the Offer under the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, or HSR Act, must have expired or been terminated, and there must not be in effect any voluntary agreement by any party to the Merger Agreement and the U.S. Federal Trade Commission, the U.S. Department of Justice or any foreign governmental body, pursuant to which such party has agreed not to consummate the Merger or the Offer for any period of time;

there must not be any legal proceeding pending or threatened by an official of a government or governmental entity in which such government or governmental entity indicates that it intends to conduct any legal proceeding or take any other action (i) challenging or seeking to restrain or prohibit the consummation of the Merger, the Offer or any of the other transactions contemplated by the Merger

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Agreement, (ii) relating to the Merger, the Offer or any of the other transactions contemplated by the Merger Agreement and seeking to obtain from Invitae, Merger Sub or CombiMatrix any material damages or other relief, (iii) seeking to materially prohibit or limit the ability to vote, transfer, receive dividends or otherwise exercise ownership rights with respect to any Invitae common stock to be issued in the Merger or the Offer, (iv) that would materially affect the right or ability of Invitae or CombiMatrix to own the assets or operate their businesses, or (v) seeking to compel Invitae or CombiMatrix to dispose of or hold separate any material assets as a result of the Merger, the Offer or any of the other transactions contemplated by the Merger Agreement; and

the shares of Invitae common stock to be issued in the Merger and the Offer must be approved for listing on the NYSE as of the effective time of the Merger.

In addition, each of CombiMatrix s and Invitae s obligation to complete the Merger is further subject to the satisfaction or waiver by that party of the following additional conditions:

certain representations and warranties of the other party in the Merger Agreement must be true and correct in all material respects on the date of the Merger Agreement and on the closing date of the Merger with the same force and effect as if made on the closing date, or, if such representations and warranties address matters as of a particular date, then as of that particular date;

all other representations and warranties of the other party in the Merger Agreement must be true and correct on the date of the Merger Agreement and on the closing date of the Merger with the same force and effect as if made on the closing date, or, if such representations and warranties address matters as of a particular date, then as of that particular date, except where the failure of these representations and warranties to be true and correct would not have a material adverse effect on the other party;

the other party to the Merger Agreement must have performed or complied with in all material respects all covenants and obligations in the Merger Agreement required to be performed or complied with by it on or before the closing of the Merger;

the other party must not have experienced a material adverse effect that is continuing as of the closing of the Merger; and

the other party must have delivered certain certificates and other documents required under the Merger Agreement for the closing of the Merger.

In addition, the obligation of Invitae and Merger Sub to complete the Merger is further subject to the satisfaction or waiver of the following conditions:

Invitae must have consummated the Offer and at least 90% of the CombiMatrix Series F warrants outstanding immediately prior to the date of the Merger Agreement must have been tendered in the Offer;

provided that Invitae has offered shares of Invitae common stock with a value of at least \$2.90 (based on the Invitae Trailing Average Share Value) per CombiMatrix Series F warrant;

CombiMatrix must have completed the repurchase of all CombiMatrix Series A, Series B, Series C, Series E and PIPE warrants pursuant to the terms of that certain CombiMatrix Common Stock Purchase Warrants Repurchase Agreement dated July 11, 2016;

the Transaction Bonus Payout Agreements with CombiMatrix s directors and executives must remain in full force and effect;

consulting agreements with each of Mark McDonough and Scott Burell shall have been executed and become effective immediately at the effective time;

Invitae must have received any required consent under its existing loan and security agreement with Oxford Capital, LLC to the Merger, the Offer and the other transactions contemplated by the Merger Agreement; and

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CombiMatrix must have delivered a certificate setting forth the allocation of the Merger consideration to its securityholders.

## Termination of the Merger Agreement and Termination Fee

The Merger Agreement may be terminated at any time before the closing of the Merger, whether before or after the required stockholder approvals to complete the Merger have been obtained, as set forth below:

- (1) by mutual agreement of CombiMatrix and Invitae;
- (2) by either CombiMatrix or Invitae if the Merger has not closed by January 31, 2018 (other than in cases in which such failure to close is due to a breach by the party wishing to terminate), which date may be extended in certain circumstances;
- (3) by either CombiMatrix or Invitae if there is any final and nonappealable order, decree or ruling that prohibits the completion of the Merger;
- (4) by either CombiMatrix or Invitae if the CombiMatrix special meeting has been held and completed and the Merger Proposal not been approved (other than by CombiMatrix in cases in which such failure has been caused by CombiMatrix s action or failure to act and such action or failure to act is a material breach by CombiMatrix);
- (5) by Invitae if (i) the CombiMatrix board of directors fails to recommend, withdraws or modifies in a manner adverse to Invitae that CombiMatrix s stockholders vote to adopt and approve the Merger Proposal, (ii) the CombiMatrix board fails to include its board recommendation of the Merger Proposal in the related proxy statement/prospectus, (iii) the CombiMatrix board has approved, endorsed or recommended any competing proposal, (iv) CombiMatrix has entered into any letter of intent or definitive agreement for a competing proposal or (v) CombiMatrix or any of its representatives has breached the non-solicitation obligations in the Merger Agreement;
- (6) by CombiMatrix if Invitae breaches any of its representations, warranties, covenants or agreements in the Merger Agreement or if a material adverse effect has occurred with respect to Invitae, in each case that would prevent Invitae from satisfying its closing conditions (with a 30 calendar day cure period); and
- (7) by Invitae if CombiMatrix breaches any of its representations, warranties, covenants or agreements in the Merger Agreement or if a material adverse effect has occurred with respect to CombiMatrix, in each case that would prevent CombiMatrix from satisfying its closing conditions (with a 30 calendar day cure period). CombiMatrix is required to pay Invitae a termination fee of \$1,400,000 (net of expense reimbursement previously paid) and/or Invitae s expenses up to \$400,000, if the Merger Agreement is terminated by CombiMatrix or Invitae pursuant to clause 4 or by Invitae pursuant to clause 5 above, but only if (i) at any time before the CombiMatrix stockholders meeting a bona fide competing proposal with respect to CombiMatrix has been publicly announced,

disclosed or, in the event the Merger Agreement is terminated pursuant to clause 5 above, otherwise communicated to CombiMatrix s board of directors and (ii) in the event the Merger Agreement is terminated pursuant clause 4 above, within twelve months after the date of such termination, CombiMatrix enters into a definitive agreement with respect to a competing transaction or consummates a competing transaction. CombiMatrix is also required to pay Invitae expense reimbursements of up to \$400,000 if the Merger Agreement is terminated pursuant to clause 7 above (except as it relates to a material adverse effect) or if Invitae fails to consummate the Merger solely as a result of a material adverse effect with respect to CombiMatrix.

Invitae is required to pay CombiMatrix expense reimbursements of up to \$400,000 if the Merger Agreement is terminated by CombiMatrix pursuant to clause 6 above (except as it relates to a material adverse effect) or if CombiMatrix fails to consummate the Merger solely as a result of a material adverse effect with respect to Invitae.

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Any termination of the Merger Agreement shall not relieve any party for its fraud or of liability for any willful and material breach of any representation, warranty, covenant, obligation or other provision contained in the Merger Agreement.

#### Amendment

The Merger Agreement may be amended by an instrument in writing signed on behalf of each of Invitae, Merger Sub and CombiMatrix with the approval of the respective boards of directors of Invitae, Merger Sub and CombiMatrix at any time, except that after the Merger Proposal has been adopted by the stockholders of CombiMatrix, no amendment which by law requires further approval by the stockholders of CombiMatrix shall be made without such further approval.

### **Expenses**

The Merger Agreement provides all fees and expenses incurred in connection with the Merger Agreement and the transactions contemplated thereby shall be paid by the party incurring such expenses, except as described above in the section entitled *The Merger Agreement Termination of the Merger Agreement and Termination Fee* and except that CombiMatrix and Invitae shall share equally all filing fees and expenses, other than attorneys and accountants fees and expenses, incurred in relation to any filings required by the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended, and shall share equally any fees and expenses, other than attorneys and accountants fees and expenses, incurred by the engagement of the exchange agent and in relation to printing, filing and mailing with the SEC of the registration statements on Form S-4 for the Merger and the Offer and for the related proxy statement/prospectus and offer documents.

#### **Special Meeting of CombiMatrix Stockholders**

CombiMatrix is obligated under the Merger Agreement to hold its stockholders meeting for the purpose of adopting and approving the Merger Proposal as promptly as practicable after the registration statement on Form S-4 filed in connection with the Merger being declared effective by the SEC.

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# DESCRIPTION OF INVITAE CAPITAL STOCK

For a description of Invitae s capital stock, please see Invitae s periodic reports and other documents incorporated by reference into this document. See the section entitled Where You Can Find More Information.

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## COMPARISON OF RIGHTS OF INVITAE AND COMBIMATRIX STOCKHOLDERS

In the Offer, CombiMatrix Series F warrant holders will receive shares of Invitae common stock. The following is a summary of certain material differences between the rights of holders of CombiMatrix common stock and the rights of holders of Invitae common stock, but it is not a complete description of those differences. These differences arise from the governing documents of the two companies, including Invitae s amended and restated certificate of incorporation, as amended (referred to as Invitae s certificate of incorporation), and amended and restated bylaws (referred to as Invitae s bylaws), and CombiMatrix s amended and restated certificate of incorporation (referred to as CombiMatrix s certificate of incorporation) and second amended and restated bylaws (referred to as CombiMatrix s bylaws). Invitae and CombiMatrix are each Delaware corporations and are governed by the DGCL. After completion of the Offer and the Merger, the rights of CombiMatrix Series F warrant holders who become Invitae stockholders will be governed by the DGCL and Invitae s certificate of incorporation and bylaws. The following is a comparison of the material rights of the holders of shares of Invitae common stock and the holders of shares of CombiMatrix common stock, but it is not a complete description of those rights. You are urged to read each of the Invitae certificate of incorporation and bylaws in its entirety. For additional information, see the section entitled *Where You Can Find More Information*.

# Capitalization

*Invitae*. The total number of shares of all classes of stock authorized under Invitae s certificate of incorporation is 420,000,000 shares, consisting of 400,000,000 shares of common stock, par value \$0.0001 per share, and 20,000,000 shares of preferred stock, par value \$0.0001 per share, of which 3,458,823 shares are designated Series A convertible preferred stock. As of September 26, 2017, there were 50,207,961 shares of Invitae common stock issued and outstanding and 3,458,823 shares of Series A convertible preferred stock issued and outstanding.

CombiMatrix. The total number of shares of all classes of stock authorized under CombiMatrix s certificate of incorporation is 55,000,000 shares, consisting of 50,000,000 shares of common stock, par value \$0.001 per share, and 5,000,000 shares of preferred stock, par value \$0.001 per share, of which 4,000 shares are designated Series A 6% convertible preferred stock, 2,000 shares are designated Series B 6% convertible preferred stock, 2,500 shares are designated Series C 6% convertible preferred stock, 12,000 shares are designated Series D convertible preferred stock, 2,202 shares are designated Series E 6% convertible preferred stock and 8,000 shares are designated Series F convertible preferred stock. As of September 26, 2017, there were 2,938,982 shares of CombiMatrix common stock issued and outstanding, no shares of CombiMatrix Series A 6% convertible preferred stock issued and outstanding, no shares of CombiMatrix Series D convertible preferred stock issued and outstanding, no shares of CombiMatrix Series D convertible preferred stock issued and outstanding, no shares of CombiMatrix Series D convertible preferred stock issued and outstanding, and 14 shares of CombiMatrix Series F convertible preferred stock issued and outstanding.

# **Voting Rights**

*Invitae*. Invitae s bylaws provide that at every meeting of the stockholders each stockholder shall be entitled to one vote for each share of the capital stock having voting power held by such stockholder. The holders of preferred stock have no voting rights, except as otherwise required by law.

CombiMatrix. Pursuant to CombiMatrix s certificate of incorporation, each holder of CombiMatrix common stock is entitled to one vote for each share of CombiMatrix common stock held of record by such holder on all matters on which stockholders generally are entitled to vote. The holders of preferred stock have no voting rights, except as required by law. However, as long as any shares of a class of preferred stock are outstanding, CombiMatrix may not,

without the affirmative vote of the holders of a majority of the then outstanding shares of

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such class of preferred stock, (i) alter or change adversely the powers, preferences or rights given to such class of preferred stock or alter or amend the certificate of designation setting forth such powers, preferences and rights, (ii) authorize or create any class of stock ranking as to dividends, redemption or distribution of assets upon a liquidation senior to, or otherwise pari passu with, such class of preferred stock, (iii) amend its certificate of incorporation or other charter documents in any manner that adversely affects any rights of such class of preferred stock, (iv) increase the number of authorized shares of such class of preferred stock, or (v) enter into any agreement with respect to any of the foregoing; provided that the foregoing clause (ii) does not apply to the outstanding Series F convertible preferred stock.

# **Stockholder Action by Written Consent**

The DGCL allows actions to be taken by stockholders by written consent to be made by the holders of the minimum number of votes that would be needed to approve a matter at an annual or special meeting of stockholders, unless this right to act by written consent is denied in the certificate of incorporation.

*Invitae*. The Invitae certificate of incorporation specifically prohibits stockholders from taking action by written consent.

*CombiMatrix*. The CombiMatrix certificate of incorporation specifically prohibits stockholders from taking action by written consent.

#### **Dividends**

The DGCL permits a corporation to declare and pay dividends out of surplus or, if there is no surplus, out of its net profits for the fiscal year in which the dividend is declared and/or the preceding fiscal year. Surplus is defined as the excess of the net assets of the corporation over the amount determined to be the capital of the corporation by the board of directors. The capital of the corporation is typically calculated to be (and cannot be less than) the aggregate par value of all issued shares of capital stock. The calculation of net assets equals the fair value of the total assets minus total liabilities. The DGCL also provides that dividends may not be paid out of net profits if, after the payment of the dividend, capital is less than the capital represented by the outstanding stock of all classes having a preference upon the distribution of assets.

*Invitae*. Pursuant to Invitae s certificate of incorporation, the holders of shares of Invitae common stock are entitled to receive dividends, when, as and if declared by the board of directors from time to time. Dividends are payable in cash, property or shares of capital stock. Invitae shall not declare, pay or set aside dividends on shares of any other class or series of Invitae s capital stock (other than dividends in the form of Invitae s common stock) unless the holders of Invitae s Series A convertible preferred stock then outstanding shall first receive, or simultaneously receive, a dividend on each outstanding share of preferred stock in an amount at least equal to that dividend per share of preferred stock as would equal the product of (i) the dividend payable on each share of Invitae s common stock and (ii) the number of shares of common stock issuable upon conversion of a share of Invitae s Series A convertible preferred stock, in each case as calculated on the record date for determination of holders entitled to receive such dividend.

CombiMatrix. CombiMatrix s certificate of incorporation provides that the holders of CombiMatrix s Series F convertible preferred stock will be entitled to dividends equal to and in the same form as dividends actually paid on shares of CombiMatrix s common stock when, as and if such dividends are paid on shares of the common stock. CombiMatrix s certificate of incorporation also provides dividends for certain other classes of preferred stock which are not outstanding as of the date of this prospectus/offer to exchange.

# **Number of Directors**

Under the DGCL, the board of directors of a corporation must consist of one or more members, each of whom must be a natural person.

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*Invitae*. The bylaws of Invitae state that the number of directors that shall constitute the entire board of directors shall be fixed from time to time by resolution adopted by a majority of the directors then in office. There are currently five members of the Invitae board of directors.

*CombiMatrix*. CombiMatrix s certificate of incorporation provides that the number of directors of CombiMatrix will be fixed from time to time by action of at least a majority of the directors then in office, and that such number will be no less than five and no more than nine. There are currently six members of the CombiMatrix board of directors.

## **Classification of Directors**

The DGCL permits the directors of any corporation to be divided into one, two or three classes, with the term of office of those directors of the first class expiring at the first annual meeting held after such classification becomes effective, of the second class one year thereafter, and of the third class two years thereafter, with directors being chosen for a full term to replace those whose terms expire at each annual election thereafter.

*Invitae*. The members of Invitae s board of directors are classified into three classes, the members of one class of which are elected at each meeting of the stockholders. Each board class is elected to hold office for a three-year term and until the successors of such class have been elected and qualified. Newly created directorships resulting from any increase in the authorized number of directors or any vacancies in the board of directors shall be filled solely by a majority vote of the directors then in office, although less than a quorum, or by a sole remaining director, and such newly appointed directors shall hold office until the next annual election at which the term of the class to which he or she has been elected expires and until such director s successor is duly elected and qualified, or until such director s earlier death, resignation, removal or incapacity.

*CombiMatrix*. The board of directors of CombiMatrix is not classified. All CombiMatrix directors are elected annually to serve one-year terms.

# **Election of Directors**

The DGCL provides that directors shall be elected by a plurality of the votes of the shares present in person or represented by proxy at the meeting and entitled to vote on the election of directors, and that a bylaw amendment adopted by stockholders which specifies the votes that shall be necessary for the election of directors shall not be further amended or repealed by the board of directors.

*Invitae*. Invitae directors are elected by a plurality of the votes of the shares present in person or represented by proxy at the meeting and entitled to vote on the election of directors. Each director so elected shall hold office until the next annual meeting of stockholders in which such director s class stands for election and until such director s successor is duly elected and qualified, or until such director s earlier death, resignation, removal or incapacity.

*CombiMatrix*. The CombiMatrix bylaws provide that directors shall be elected by a plurality of the votes of the shares present in person or represented by proxy at the meeting and entitled to vote on the election of directors. Each director so elected shall hold office until the next annual meeting of stockholders and until such director s successor is duly elected and qualified, or until such director s earlier death, resignation, retirement, disqualification or removal.

## **Removal of Directors**

The DGCL provides that in the absence of cumulative voting or a classified board, any director or the entire board of directors may be removed, with or without cause, by the holders of a majority of the shares then entitled to vote in an

election of directors.

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*Invitae*. Invitae s certificate of incorporation provides that any or all of the Invitae directors may be removed from office, but only for cause and only by the holders of a majority of the voting power of the capital stock issued and outstanding then entitled to vote at an election of directors.

*CombiMatrix*. CombiMatrix s certificate of incorporation provides that directors may be removed, with or without cause, only upon the affirmative vote of holders of at least two-thirds of the voting power of all then outstanding shares of CombiMatrix stock entitled to vote generally in the election of directors, voting together as a single class; provided that where such removal is approved by a majority of the directors the affirmative vote of only a majority of the holders of all outstanding shares of CombiMatrix common stock will be required for removal of a director.

## Vacancies

*Invitae*. The Invitae certificate of incorporation provides that newly created directorships resulting from any increase in the authorized number of directors or any vacancies in the Invitae board of directors resulting from death, resignation, retirement, disqualification, removal or other cause shall be filled solely by a majority vote of the Invitae directors then in office, even if less than a quorum, or by a sole remaining director (and not by stockholders), and that any director so chosen shall hold office until the next annual election at which the term of the class to which he or she has been elected expires and until such director s successor is duly elected and qualified or until such director s earlier resignation or removal.

*CombiMatrix*. The CombiMatrix certificate of incorporation provides that newly created directorships resulting from an increase in the number of directors and any vacancies on the CombiMatrix board of directors resulting from death, resignation, retirement, disqualification, removal or other cause may be filled solely by a majority vote of the remaining CombiMatrix directors then in office, even if less than a quorum, and that any director so chosen shall hold office until the next election of directors and until his or her successor shall be elected and qualified.

## **Amendments to Certificate of Incorporation**

Under the DGCL, an amendment to the certificate of incorporation requires (1) the approval of the board of directors, (2) the approval of the holders of a majority of the outstanding stock entitled to vote upon the proposed amendment, and (3) the approval of the holders of a majority of the outstanding stock of each class entitled to vote thereon as a class.

*Invitae*. Invitae s certificate of incorporation provides that the affirmative vote of the holders of at least 66-2/3% of the voting power of the shares of Invitae s capital stock entitled to vote generally in the election of directors, voting together as a single class, shall be required to amend in any respect or repeal Paragraph A of Article V (Amendments to Bylaws), Article VI (Board of Directors; Newly Created Directorships), Article VII (Action By Written Consent; Meetings of Stockholders; Stockholder Nominations; Exclusive Forum), Article VIII (Indemnification; Insurance) or Article IX (Amendment to Certificate of Incorporation).

*CombiMatrix*. The CombiMatrix certificate of incorporation provides that CombiMatrix reserves the right to amend, alter, change or repeal any provision contained in the certificate of incorporation, and all rights, preferences, and privileges conferred upon the stockholders, directors or any other persons, and to add or insert other provisions authorized by the DGCL, in the manner prescribed by the DGCL.

## **Amendments to Bylaws**

Under the DGCL, bylaws may be adopted, amended or repealed by the stockholders entitled to vote, and by the board of directors if the corporation s certificate of incorporation confers the power to adopt, amend or repeal the corporation s bylaws upon the directors.

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Invitae. The Invitae certificate of incorporation authorizes the Invitae board of directors to adopt, amend or repeal Invitae s bylaws, without any action on the part of the stockholders, by the vote of at least a majority of the directors then in office. In addition, Invitae s bylaws may be adopted, amended or repealed by the affirmative vote of the holders of at least two-thirds of the voting power of the shares of Invitae s capital stock entitled to vote in the election of directors, voting as one class; provided, however, that the affirmative vote of the holders representing only a majority of the voting power of the shares of Invitae s capital stock entitled to vote in the election of directors, voting as one class, shall be required if such adoption, amendment or repeal of Invitae s bylaws has been previously approved by the affirmative vote of at least two-thirds of the directors then in office.

CombiMatrix. The CombiMatrix certificate of incorporation and bylaws provide that the CombiMatrix board of directors is expressly authorized to adopt, alter, amend and repeal the CombiMatrix bylaws, subject to the power of the stockholders to change or repeal the bylaws and provided that the board of directors may not make or alter any bylaws fixing the qualifications, classifications, or term of office of directors. In addition, CombiMatrix s bylaws may be repealed, altered or amended or new bylaws adopted by the affirmative vote of the holders of two-thirds of CombiMatrix s stock entitled to vote at any meeting of the stockholders.

# **Annual Meetings of Stockholders**

*Invitae*. The Invitae bylaws provide that an annual meeting of Invitae s stockholders shall be held each year at such date and time as shall be designated from time to time by the Invitae board of directors and stated in the notice of the meeting. At each such annual meeting, the stockholders shall elect directors of the class whose term expires at such meeting and shall transact such other business as may properly be brought before the meeting.

CombiMatrix. The CombiMatrix bylaws provide that an annual meeting of CombiMatrix s stockholders, for the purpose of electing directors and for such other business as may lawfully come before such meeting, shall be held each year at such date and time as shall be designated from time to time by the CombiMatrix board of directors, or, if not so designated, then at 10:00 a.m. on May 31 each year if a business day and not a legal holiday, or at the same time on the next succeeding business day that is not a holiday.

# **Special Meetings of Stockholders**

*Invitae*. The Invitae certificate of incorporation specifically denies any power of Invitae s stockholders to call a special meeting of stockholders. Invitae s bylaws provide that a special meeting of the stockholders shall be called by the Secretary upon the written request of the Chairman of the Invitae board of directors or the Chief Executive Officer of Invitae or by a resolution adopted by the affirmative vote of a majority of the Invitae board of directors, with such request stating the purpose of the proposed meeting.

CombiMatrix. The CombiMatrix certificate of incorporation provides that only the Chairman of the Board, the President or the CombiMatrix board of directors may call a special meeting of stockholders and specifically denies any power of CombiMatrix s stockholders to call a special meeting of stockholders. CombiMatrix s bylaws provide that a special meeting of the stockholders may be called for any purpose or purposes, by the Chairman of the Board, the President or the CombiMatrix board of directors at any time.

# **Submission of Stockholder Proposals**

*Invitae*. Invitae s bylaws provide that any stockholder entitled to vote at a meeting of stockholders may propose business to be brought before such meeting only if such stockholder has given timely notice to the Secretary of Invitae in proper written form of the stockholder s intent to propose such business. Notice of any proposal to be presented by

any stockholder or of the name of any person to be nominated by any stockholder for election as a director of Invitae at an annual or special meeting of stockholders shall be delivered to the Secretary of Invitae at Invitae s principal executive office not less than 90 nor more than 120 days in advance of the anniversary of the date of Invitae s proxy statement provided in connection with the previous year s annual meeting of

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stockholders, provided that in the event that no annual meeting was held in the previous year or the annual meeting is called for a date that is more than 30 days before or after the anniversary date of the previous year s annual meeting, notice by the stockholder must be received by the Secretary of Invitae not later than the close of business on the later of (a) the 90th day prior to such annual meeting and (b) the tenth day following the day on which public announcement of the date of such meeting is first made. In the case of a special meeting of stockholders called for the purpose of electing directors, notice must be delivered not later than the close of business on the tenth day following the day on which notice of the date of the special meeting was mailed or public disclosure of the date of the special meeting was made. Any stockholder who gives notice of any such matter must deliver with such notice the text of the business or proposal to be presented and a brief written description of the business desired to be brought before the annual meeting and the reasons for conducting such business, setting forth such stockholder s name and record address and the beneficial owner, if any, on whose behalf the proposal is made, the class, series and number of shares of Invitae that are owned beneficially and of record by the stockholder and such beneficial owner, if any, any material interest of the stockholder in such business, and any other information that is required to be provided by the stockholder pursuant to Section 14 of the Exchange Act in such stockholder s capacity as a proponent of a stockholder proposal.

CombiMatrix. CombiMatrix s bylaws provided that a stockholder submitting a proposal for a stockholder vote must deliver a written notice to the Secretary of CombiMatrix no less than 120 days nor more than 180 days prior to the date on which CombiMatrix first mailed its proxy materials for the previous year s annual meeting of stockholders (or the date on which CombiMatrix mails its proxy materials for the current year if during the prior year CombiMatrix did not hold an annual meeting or if the date of the annual meeting was changed more than 30 days from the prior year). The notice must set forth (a) a brief description of the business desired to be brought before the annual meeting and the reasons for conducting such business at the annual meeting, (b) the name and record address of the stockholder proposing such business, (c) the class and number of shares of CombiMatrix which are beneficially owned by the stockholder, and (d) any material interest of the stockholder in such business.

## **Stockholder Nomination of Director Candidates**

Invitae. In addition to the advance notice requirements described above, which apply to nominations by Invitae stockholders of candidates for director, any stockholder desiring to nominate any person for election as a director must deliver with such notice a statement in writing setting forth (a) as to each person whom the stockholder proposes to nominate for election or reelection as a director, (i) the name, age, business address and residence address of the person to be nominated, (ii) the principal occupation or employment of the person, (iii) the class, series and number of shares of capital stock of Invitae that are owned beneficially by the person, (iv) any other information relating to the person that is required to be disclosed in solicitations for proxies for election of directors pursuant to Section 14 of the Exchange Act and (v) such person s signed consent to serve as a director of Invitae if elected and (b) as to the stockholder giving the notice (x) the stockholder s name and address, (y) the class, series and number of shares of capital stock of Invitae beneficially owned by such stockholder and (z) a description of all arrangements or understandings between such stockholder and each such nominee.

CombiMatrix. CombiMatrix s bylaws provide that any stockholder desiring to nominate any person for election as director must deliver a written notice to the Secretary not less than 80 days nor more than 120 days prior to the date on which CombiMatrix first mailed its proxy materials for the previous year s annual meeting of stockholders (or the date on which CombiMatrix mails its proxy materials for the current year if during the prior year CombiMatrix did not hold an annual meeting or if the date of the annual meeting was changed more than 30 days from the prior year). Such notice must set forth (a) as to each person whom the stockholder proposes to nominate for election or re-election as a director, (i) the name, age, business address and residence address of the person, (ii) the principal occupation or employment of the person, (iii) the class and number of shares of CombiMatrix which are beneficially owned by the

person, and (iv) any other information relating to the person that is required to be disclosed in solicitations for proxies for election of directors pursuant to Rule 14a under the Exchange Act; and (b) as to the stockholder giving the notice, (i) the name and record address of the stockholder, and (ii) the class and number of shares of CombiMatrix which are beneficially owned by the stockholder.

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# **Indemnification and Limitation of Personal Liability of Directors**

The DGCL provides that a corporation may indemnify a director or officer against expenses actually and reasonably incurred by him or her in association with any action, suit or proceeding in which the director or officer is involved by reason of his or her service to the corporation, if the director or officer acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation, and with respect to a criminal proceeding, the director or officer had no reason to believe that the act was unlawful. In addition, the DGCL requires that a corporation indemnify a director or officer who successfully defends himself or herself in such a proceeding.

Invitae. Invitae s bylaws provide that it will indemnify any person who was or is made a party or is threatened to be made a party to or is involved in any actual or threatened action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that such person is or was a director or officer of Invitae, or is or was serving at the request of Invitae as a director, officer, employee or agent of another corporation, partnership, limited liability company, joint venture, trust, employee benefit plan sponsored or maintained by Invitae, or other enterprise, against all expense, liability and loss (including attorneys fees and related disbursements, judgments, fines, excise taxes or penalties and amounts paid or to be paid in settlement) actually and reasonably incurred by such person in connection with such action, suit or proceeding if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of Invitae, and, with respect to any criminal action or proceeding, had no reasonable cause to believe such person s conduct was unlawful.

Invitae s bylaws further provide that a person entitled to indemnification will also have the right advancement of expenses incurred in defending any proceeding, provided that if the DGCL requires, the payment of such expenses incurred by a director or officer in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such person while a director or officer, including, without limitation, service to an employee benefit plan) in advance of the final disposition of a proceeding, shall be made only upon delivery to Invitae of an undertaking by or on behalf of such director or officer to repay all amounts so advanced if it is ultimately determined that such director or officer is not entitled to be indemnified. In addition, no advance shall be made to an officer of Invitae (unless such officer is or was a director of Invitae) in any action, suit or proceeding, whether civil, criminal, administrative or investigative, if a determination is made by the disinterested members of Invitae s board of directors or independent legal counsel, that such person acted in bad faith or in a manner that such person did not believe to be in or not opposed to the best interests of Invitae.

CombiMatrix. CombiMatrix s bylaws provide that it will indemnify to the fullest extent authorized by the DGCL any person who was or is a party or is threatened to be made a party to or is involved in any threatened, pending, or completed action, suit, or proceeding, whether civil, criminal, administrative, or investigative, by reason of the fact that such person is or was a director, officer, employee, or agent of CombiMatrix, or is or was serving at the request of CombiMatrix as a director, officer, employee or agent of another corporation, partnership, joint venture, trust, employee benefit plan or other enterprise, against all expense, liability and loss (including attorneys fees, judgments, fines, excise taxes or penalties and amounts paid or to be paid in settlement) reasonably incurred or suffered by such person in connection with such action, suit or proceeding.

CombiMatrix s bylaws further provide that a person entitled to indemnification will also have the right advancement of expenses incurred in defending any proceeding, provided that if required by the DGCL, expenses will be advanced only upon delivery to CombiMatrix of an undertaking by or on behalf of such director or officer to repay such amount if it is ultimately determined that he or she is not entitled to be indemnified.

# **Extraordinary Transactions**

The DGCL generally requires that any merger, consolidation or sale of substantially all the assets of a corporation be approved by a vote of a majority of all outstanding shares entitled to vote thereon.

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*Invitae*. Although the DGCL permits a Delaware corporation s certificate of incorporation to provide for a greater vote for a merger, consolidation or sale of substantially all the assets of a corporation than the vote described above, the Invitae certificate of incorporation does not require a greater vote.

*CombiMatrix.* Although the DGCL permits a Delaware corporation s certificate of incorporation to provide for a greater vote for a merger, consolidation or sale of substantially all the assets of a corporation than the vote described above, the CombiMatrix certificate of incorporation does not require a greater vote.

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## **LEGAL MATTERS**

Pillsbury Winthrop Shaw Pittman LLP, San Diego, California will pass upon the validity of the Invitae common stock offered by this prospectus/offer to exchange. The material U.S. federal income tax consequences of the Offer will be passed upon for Invitae by Pillsbury Winthrop Shaw Pittman LLP, Palo Alto, California and for CombiMatrix by Stradling Yocca Carlson & Rauth, P.C., Newport Beach, California.

#### **EXPERTS**

The consolidated financial statements of Invitae Corporation included in Invitae Corporation s Annual Report (Form 10-K, as amended) for the year ended December 31, 2016 have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report thereon, included therein, and incorporated herein by reference. Such consolidated financial statements are incorporated herein by reference in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

The financial statements of CombiMatrix at December 31, 2016 and 2015 and for each of the two years in the period ended December 31, 2016 included in this prospectus/offer to exchange have been included in reliance upon the report of Haskell & White LLP, an independent registered public accounting firm, and given on the authority of said firm as experts in auditing and accounting.

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## WHERE YOU CAN FIND MORE INFORMATION

The SEC allows Invitae to incorporate by reference information in this document. This means that Invitae can disclose important information to you by referring you to another document filed separately with the SEC. These documents contain important information about Invitae and its financial condition, business, operations and results. The information incorporated by reference is considered to be part of this document, except for any information that is superseded by information that is included directly in this document. This document incorporates by reference the documents listed below that Invitae previously filed with the SEC.

# **Invitae SEC Filings Period or Date Filed** Annual Report on Form 10-K For the fiscal year ended December 31, 2016, as filed with the SEC on March 16, 2017 (as amended June 23, 2017 and June 26, 2017) Quarterly Report on Form 10-Q For the quarterly periods ended June 30, 2017 and March 31, 2017, as filed with the SEC on August 9, 2017 and May 9, 2017, respectively Filed on: September 27, 2017, August 7, 2017, Current Report on Form 8-K August 4, 2017, August 1, 2017 (two filings), June 13, 2017, June 1, 2017, May 19, 2017, February 9, 2017, January 9, 2017 and January 6, 2017 (other than the portions of those documents not deemed to be filed) The description of Invitae capital stock set forth in a As filed with the SEC on February 11, 2015, together registration statement filed pursuant to Section 12 of the with all amendments and reports filed for the purpose Exchange Act and any amendment or report filed for the of updating such description purpose of updating those descriptions Proxy Statement on Schedule 14A For the 2017 annual meeting of stockholders, filed with the SEC on April 6, 2017 In addition, Invitae also incorporates by reference additional documents that it files with the Securities and Exchange

In addition, Invitae also incorporates by reference additional documents that it files with the Securities and Exchange Commission between the date of this document and the Expiration Date of the Offer. These documents include periodic reports, such as Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, as well as proxy statements.

CombiMatrix is subject to the information requirements of the Exchange Act; however, CombiMatrix cannot incorporate by reference into this prospectus/offer to exchange because it is not eligible to do so under Form S-4. The documents listed below have been previously filed with the SEC by CombiMatrix, contain important information about CombiMatrix and its financial condition, and are included with this prospectus/offer to exchange in the applicable annex set forth below.

## **CombiMatrix SEC Filings**

**Annex to Prospectus/Offer to Exchange** 

CombiMatrix Annual Report on Form 10-K for the fiscal year ended December 31, 2016

Annex B

CombiMatrix Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2017

Invitae has filed a registration statement on Form S-4 to register with the SEC the offer and sale of the shares of Invitae common stock to be issued in the Offer. This prospectus/offer to exchange is a part of that registration statement. Invitae may also file amendments to that registration statement. In addition, on September 13, 2017,

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Invitae filed with the SEC a tender offer statement on Schedule TO under the Exchange Act, together with exhibits, to furnish certain information about the Offer. Invitae may also file amendments to the Schedule TO. You should read these documents as they will contain important information. These documents will not be sent to you in hard copy form. You may obtain copies of the Form S-4 and Schedule TO (and any amendments to those documents) by contacting the information agent as directed on the back cover of this prospectus/offer to exchange. You may also request that the information agent sends you all future documents, announcements and information in relation to the offer in hard copy form.

Invitae has supplied all information contained or incorporated by reference in this document relating to Invitae and CombiMatrix has supplied all information relating to CombiMatrix. Documents incorporated by reference by Invitae or otherwise previously filed by CombiMatrix with the SEC are available without charge, excluding any exhibits to those documents unless the exhibit is specifically incorporated by reference as an exhibit in this document. You may read and copy documents incorporated by reference in this document, other than certain exhibits to those documents, at the SEC s Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. You can also obtain such documents free of charge through the SEC s website (www.sec.gov) or by requesting them in writing or by telephone from the appropriate company at the following addresses.

# **Invitae Corporation**

**CombiMatrix Corporation** 

1400 16th Street

300 Goddard, Suite 100

San Francisco, CA 94103

Irvine, CA 92618

(415) 374-7782

(949) 753-0624

Attn: Investor Relations

Attn: Investor Relations

If you would like to request any documents, please do so by November 6, 2017, or five business days prior to the Expiration Date, whichever is later, to receive them before the Expiration Date of the Offer. You will not be charged for any of these documents that you request. If you request any incorporated documents from Invitae or CombiMatrix, Invitae or CombiMatrix will mail them to you by first class mail, or another equally prompt means, within one business day after it receives your request.

Neither CombiMatrix nor Invitae has authorized anyone to give any information or make any representation about the Offer, the Merger or the companies that is different from, or in addition to, that contained in this document or in any of the materials that have been incorporated in this document. Therefore, if anyone does give you information of this sort, you should not rely on it. If you are in a jurisdiction where offers to exchange or sell, or solicitations of offers to exchange or purchase, the securities offered by this document or the solicitation of proxies is unlawful, or if you are a person to whom it is unlawful to direct these types of activities, then the offer presented in this document does not extend to you. The information in this document speaks only as of the date of this document unless the information specifically indicates that another date applies.

## Annex A

**EXECUTION VERSION** 

#### AGREEMENT AND PLAN OF MERGER AND REORGANIZATION

THIS AGREEMENT AND PLAN OF MERGER AND REORGANIZATION (this *Agreement*) is made and entered into as of July 31, 2017, by and among **INVITAE CORPORATION**, a Delaware corporation ( *Invitae*), **CORONADO MERGER SUB, INC.**, a Delaware corporation ( *Merger Sub*), and **COMBIMATRIX CORPORATION**, a Delaware corporation ( *CombiMatrix*). Certain capitalized terms used in this Agreement are defined in <u>Exhibit A</u>.

#### RECITALS

- A. Invitae and CombiMatrix intend to effect a merger of Merger Sub into CombiMatrix (the *Merger*) in accordance with this Agreement and the DGCL. Upon consummation of the Merger, Merger Sub will cease to exist, and CombiMatrix will become a wholly-owned subsidiary of Invitae.
- B. The Parties intend, by approving resolutions authorizing this Agreement, to adopt this Agreement as a plan of reorganization within the meaning of Section 368(a) of the Code, and to cause the Merger, together with the Warrant Exchange Offer, to qualify as a reorganization under the provisions of Section 368(a) of the Code and the Treasury Regulations promulgated thereunder.
- C. The Invitae Board of Directors has approved this Agreement, the Merger, the issuance of shares of Invitae Common Stock to the stockholders of CombiMatrix pursuant to the terms of this Agreement and the other actions contemplated by this Agreement, including the Warrant Exchange Offer (consummation of which, with at least the Minimum Warrant Exchange Participation, is one of the conditions to the obligations of Invitae and Merger Sub to proceed with the Merger as set forth herein).
- D. The Merger Sub Board of Directors has determined that the Merger is in the best interests of Merger Sub and its sole stockholder and has approved this Agreement, the Merger, and the other actions contemplated by this Agreement.
- E. The CombiMatrix Board of Directors (i) has determined that the Merger is advisable and fair to, and in the best interests of, CombiMatrix and its stockholders, (ii) has deemed advisable and approved this Agreement, the Merger and the other actions contemplated by this Agreement, and (iii) has determined to recommend that the stockholders of CombiMatrix vote to adopt this Agreement and thereby approve the Merger and such other actions as contemplated by this Agreement (the *Merger Proposal*).

## **AGREEMENT**

The Parties, intending to be legally bound, agree as follows:

# Section 1. DESCRIPTION OF TRANSACTION

**1.1 Structure of the Merger**. Upon the terms and subject to the conditions set forth in this Agreement, at the Effective Time, Merger Sub shall be merged with and into CombiMatrix, and the separate existence of Merger Sub shall cease. CombiMatrix will continue as the surviving corporation in the Merger (the *Surviving Corporation*).

**1.2 Effects of the Merger**. The Merger shall have the effects set forth in this Agreement and in the applicable provisions of the DGCL. As a result of the Merger, CombiMatrix will become a wholly-owned subsidiary of Invitae.

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**1.3 Closing; Effective Time.** Unless this Agreement is earlier terminated pursuant to the provisions of Section 9.1, and subject to the satisfaction or waiver of the conditions set forth in Section 6, Section 7 and Section 8, the consummation of the Merger (the *Closing*) shall take place at the offices of Pillsbury Winthrop Shaw Pittman LLP, 12255 El Camino Real, Suite 300, San Diego, California, as promptly as practicable (but in no event later than the second (2nd) Business Day following the satisfaction or waiver of the last to be satisfied or waived of the conditions set forth in Section 6, Section 7 and Section 8, other than those conditions that by their nature are to be satisfied at the Closing, but subject to the satisfaction or waiver of each of such conditions), or at such other time, date and place as Invitae and CombiMatrix may mutually agree in writing. The date on which the Closing actually takes place is referred to as the *Closing Date*. At the Closing, the Parties shall cause the Merger to be consummated by executing and filing with the Secretary of State of the State of Delaware a certificate of merger with respect to the Merger, satisfying the applicable requirements of the DGCL and in a form reasonably acceptable to Invitae and CombiMatrix (the *Certificate of Merger*). The Merger shall become effective at the time of the filing of such Certificate of Merger with the Secretary of State of the State of Delaware or at such later time as may be specified in such Certificate of Merger with the consent of Invitae and CombiMatrix (the time as of which the Merger becomes effective being referred to as the *Effective Time*).

# 1.4 Certificate of Incorporation and Bylaws; Directors and Officers. At the Effective Time:

- (a) the Certificate of Incorporation of the Surviving Corporation shall be amended and restated in its entirety to read identically to the Certificate of Incorporation of Merger Sub as in effect immediately prior to the Effective Time, (i) except that references to the name of Merger Sub shall be replaced with references to the name of the Surviving Corporation and (ii) until thereafter amended as provided by the DGCL and such Certificate of Incorporation;
- (b) the Bylaws of the Surviving Corporation shall be amended and restated in their entirety to read identically to the Bylaws of Merger Sub as in effect immediately prior to the Effective Time, (i) except that references to the name of Merger Sub shall be replaced with references to the name of the Surviving Corporation and (ii) until thereafter amended as provided by the DGCL and such Bylaws; and
- (c) the directors and officers of Merger Sub immediately prior to the Effective Time shall be the directors and officer of the Surviving Corporation, each to hold office in accordance with the Certificate of Incorporation and Bylaws of the Surviving Corporation.

# 1.5 Conversion of CombiMatrix Common Stock, CombiMatrix RSUs, CombiMatrix Options and CombiMatrix Series F Preferred Stock; Issuance of Warrants.

- (a) At the Effective Time, by virtue of the Merger and without any further action on the part of Invitae, Merger Sub, CombiMatrix or any stockholder of CombiMatrix:
- (i) any shares of CombiMatrix Common Stock or CombiMatrix Preferred Stock held as treasury stock or held or owned by CombiMatrix, Merger Sub or any Subsidiary of CombiMatrix immediately prior to the Effective Time shall be canceled and retired and shall cease to exist, and no consideration shall be delivered in exchange therefor; and

# (ii) subject to Section 1.5(c):

(1) each share of CombiMatrix Series F Preferred Stock outstanding immediately prior to the Effective Time (excluding shares to be canceled pursuant to Section 1.5(a)(i)) shall be converted solely into the right to receive a number of shares of Invitae Common Stock equal to the product of (A) the Exchange Ratio multiplied by (B) the number of shares of CombiMatrix Common Stock underlying a share of outstanding CombiMatrix Series F Preferred

Stock on the date immediately prior to the Effective Time;

(2) each share of CombiMatrix Common Stock outstanding immediately prior to the Effective Time (excluding shares to be canceled pursuant to Section 1.5(a)(i)) shall be converted solely into the right to receive a number of shares of Invitae Common Stock equal to the Exchange Ratio;

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- (3) subject to the payment of such amounts as are required to be deducted or withheld from such consideration under the Code or under any other applicable Legal Requirement as well as the delivery of any reasonably appropriate Tax forms, including Form W-9 (or the appropriate Form W-8, as applicable), each CombiMatrix RSU outstanding immediately prior to the Effective Time shall be fully accelerated to the extent of any vesting period applicable thereto and converted into the number of shares of Invitae Common Stock determined by multiplying (A) the number of shares of CombiMatrix Common Stock that were subject to such CombiMatrix RSU, as in effect immediately prior to the Effective Time, by (B) the Exchange Ratio and rounding the resulting number down to the nearest whole number of shares of Invitae Common Stock; and
- (4) subject to the payment of such amounts as are required to be deducted or withheld from such consideration under the Code or under any other applicable Legal Requirement as well as the delivery of any reasonably appropriate Tax forms, including Form W-9 (or the appropriate Form W-8, as applicable), each in-the-money CombiMatrix Option that is outstanding and unexercised immediately prior to the Effective Time, whether or not vested or exercisable, shall be converted into the number of shares of Invitae Common Stock determined by (A) multiplying the Exchange Ratio by the number of shares of CombiMatrix Common Stock underlying such CombiMatrix Option, and subtracting therefrom (B) the number of shares of Invitae Common Stock determined by dividing (x) the exercise price payable by the holder with respect to all shares underlying such CombiMatrix Option by (y) the Invitae Trailing Average Share Value, and rounding the resulting number down to the nearest whole number of shares of Invitae Common Stock.

The shares of Invitae Common Stock issuable pursuant to this <u>Section 1.5(a)(ii)</u> are herein referred to as the *Merger Consideration*.

- (b) If any shares of CombiMatrix Common Stock, CombiMatrix RSUs or CombiMatrix Options outstanding immediately prior to the Effective Time are unvested or are subject to a repurchase option or the risk of forfeiture under any applicable restricted stock purchase agreement or other agreement with CombiMatrix, then (i) the shares of Invitae Common Stock issued in exchange for such shares of CombiMatrix Common Stock shall be issued without regard to such vesting, restrictions, repurchase options or risk of forfeiture, which shall lapse as of the Effective Time and (ii) the shares of Invitae Common Stock issued upon conversion of such CombiMatrix RSUs or CombiMatrix Options, subject to and as provided in Sections 1.5(a)(ii)(3) and 1.5(a)(ii)(4), shall be issued without any vesting period, restrictions, repurchase options or risk of forfeiture.
- (c) No fractional shares of Invitae Common Stock shall be issued in connection with the Merger, and no certificates or scrip for any such fractional shares shall be issued. Any holder of CombiMatrix Common Stock, CombiMatrix RSUs or CombiMatrix Options who would otherwise be entitled to receive a fraction of a share of Invitae Common Stock (after aggregating all fractional shares of Invitae Common Stock issuable to such holder) shall, in lieu of such fraction of a share and upon surrender by such holder of a letter of transmittal in accordance with Section 1.8 and accompanying documents as required therein, be paid in cash the dollar amount (rounded to the nearest whole cent), without interest, determined by multiplying such fraction by the Invitae Trailing Average Share Value.
- (d) Prior to the Effective Time, CombiMatrix shall take or cause to be taken any and all actions reasonably necessary to cause all CombiMatrix RSUs outstanding immediately prior to the Effective Time under the 2006 Plan or otherwise to become immediately fully vested as of the Effective Time and converted into the number of shares of unrestricted Invitae Common Stock calculated pursuant to Section 1.5(a)(ii)(3). In accordance with Section 5.4(a), CombiMatrix shall further take or cause to be taken any and all actions reasonably necessary to (i) cause all in-the-money CombiMatrix Options outstanding and unexercised immediately prior to the Effective Time, whether or not vested or exercisable, to become immediately vested as of the Effective Time and converted into the number of shares of unrestricted Invitae Common Stock calculated pursuant to Section 1.5(a)(ii)(4) and (ii) cause all out-of-the-money

CombiMatrix Options outstanding and unexercised immediately prior to the Effective Time, whether or not vested or exercisable, to be cancelled and terminated as of the Effective Time for no consideration.

(e) All CombiMatrix Series D Warrants and CombiMatrix Series F Warrants outstanding as of the Effective Time (i.e., to the extent not exchanged in the Warrant Exchange Offer, in the instance of CombiMatrix

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Series F Warrants, or exercised for cash prior to consummation of the Warrant Exchange Offer) shall be assumed by Invitae and converted into warrants to purchase Invitae Common Stock in accordance with Section 5.4(c). For the avoidance of doubt, all other CombiMatrix Warrants shall be repurchased by CombiMatrix pursuant to the CombiMatrix Warrant Repurchase.

- (f) Each share of Common Stock, \$0.001 par value per share, of Merger Sub issued and outstanding immediately prior to the Effective Time shall be converted into and exchanged for one validly issued, fully paid and nonassessable share of Common Stock, \$0.001 par value per share, of the Surviving Corporation. Each stock certificate of Merger Sub evidencing ownership of any such shares shall, as of the Effective Time, evidence ownership of such shares of Common Stock of the Surviving Corporation.
- (g) If, between the date of this Agreement and the Effective Time, the outstanding shares of CombiMatrix Capital Stock or Invitae Common Stock shall have been changed into, or exchanged for, a different number of shares or a different class, by reason of any stock dividend, subdivision, reclassification, recapitalization, split, combination or exchange of shares, the Exchange Ratio shall be correspondingly adjusted to provide holders of shares of CombiMatrix Capital Stock, or securities convertible into or exchangeable into or exercisable for such CombiMatrix Capital Stock, the same economic effect as contemplated by this Agreement prior to such event.

## 1.6 Calculation of Net Cash

- (a) For the purposes of this Agreement, the **Determination Date** shall be the date that is ten (10) calendar days prior to the anticipated date for Closing, as agreed upon by Invitae and CombiMatrix at least ten (10) calendar days prior to the CombiMatrix Stockholders Meeting or, if later, at least ten (10) calendar days prior to the anticipated end of the period for the Warrant Exchange Offer (the Anticipated Closing Date ). Within five (5) calendar days following the Determination Date, CombiMatrix shall deliver to Invitae a schedule (the Net Cash Schedule ) setting forth, in reasonable detail, CombiMatrix s good faith, estimated calculation of Net Cash (using estimates where applicable) as of the Anticipated Closing Date (the Net Cash Calculation ) prepared and certified by CombiMatrix s Chief Financial Officer; provided, however, that, for purposes of such calculation of Net Cash, current assets, current liabilities not triggered by the Closing, and long-term capital lease obligations may be calculated (i) as of the last day of the month prior to the Anticipated Closing Date if the Anticipated Closing Date occurs between the 15th and the 31st of the month or (ii) as of the last day of the month prior to the month preceding the Anticipated Closing Date if the Anticipated Closing Date occurs between the 1st and the 14th of the month, in both cases if, to the extent applicable, a mid-month calculation for such liabilities and assets (or, in the case of the foregoing clause (ii), calculation as of the most recent month-end) would be impractical. CombiMatrix shall make the work papers and back-up materials used or useful in preparing the Net Cash Schedule, as reasonably requested by Invitae, available to Invitae and, if requested by Invitae, its accountants and counsel at reasonable times and upon reasonable notice.
- (b) Within three (3) calendar days after CombiMatrix delivers the Net Cash Schedule (the *Response Date*), Invitae shall have the right to dispute any part of such Net Cash Schedule by delivering a written notice to that effect to CombiMatrix (a *Dispute Notice*). Any Dispute Notice shall identify in reasonable detail the nature of any proposed revisions to the Net Cash Calculation.
- (c) If on or prior to the Response Date, (i) Invitae notifies CombiMatrix in writing that it has no objections to the Net Cash Calculation or (ii) Invitae fails to deliver a Dispute Notice as provided in Section 1.6(b), then the Net Cash Calculation as set forth in the Net Cash Schedule shall be deemed to have been finally determined for purposes of this Agreement.

(d) If Invitae delivers a Dispute Notice on or prior to the Response Date, then Representatives of CombiMatrix and Invitae shall promptly meet and attempt in good faith to resolve the disputed item(s) and negotiate an agreed-upon determination of Net Cash, which agreed upon Net Cash amount shall be deemed to have been finally determined for purposes of this Agreement.

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(e) If Representatives of Invitae and CombiMatrix are unable to negotiate an agreed-upon determination of Net Cash pursuant to Section 1.6(d) within three (3) calendar days after delivery of the Dispute Notice (or such other period as Invitae and CombiMatrix may mutually agree upon), then Invitae and CombiMatrix shall jointly select an independent auditor of recognized national standing (the Accounting Firm ) to resolve any remaining disagreements as to the Net Cash Calculation. If Invitae and CombiMatrix are unable to mutually select the Accounting Firm, then Invitae and CombiMatrix shall each select an independent auditor of recognized national standing and those two selected firms shall jointly select a third independent auditor of recognized national standing, which shall serve as the Accounting Firm. CombiMatrix shall promptly deliver to the Accounting Firm the work papers and back-up materials used in preparing the Net Cash Schedule, and Invitae and CombiMatrix shall use commercially reasonable efforts to cause the Accounting Firm to make its determination within ten (10) calendar days of accepting its selection. CombiMatrix and Invitae shall be afforded the opportunity to present to the Accounting Firm any material related to the unresolved disputes and to discuss the issues with the Accounting Firm; provided, however, that no such presentation or discussion shall occur without the presence of a Representative of each of CombiMatrix and Invitae. The determination of the Accounting Firm shall be limited to the disagreements submitted to the Accounting Firm. The determination of the amount of Net Cash made by the Accounting Firm shall be deemed to have been finally determined for purposes of this Agreement and to represent the Net Cash for purposes of this Agreement, and the Parties shall delay the Closing until the resolution of the matters described in this Section 1.6(e). The fees and expenses of the Accounting Firm shall be allocated between Invitae and CombiMatrix in the same proportion that the disputed amount of the Net Cash that was unsuccessfully disputed by such Party (as finally determined by the Accounting Firm) bears to the total disputed amount of the Net Cash amount (and for the avoidance of doubt the fees and expenses to be paid by CombiMatrix shall reduce the Net Cash). If this Section 1.6(e) applies as to the determination of the Net Cash, upon resolution of the matter in accordance with this Section 1.6(e), the Parties shall not be required to determine Net Cash again even though the Closing Date may occur later than the Anticipated Closing Date, except that either Party may request a redetermination of Net Cash if the Closing Date is more than five (5) Business Days after the Anticipated Closing Date.

**1.7 Closing of CombiMatrix s Transfer Books**. At the Effective Time: (a) all shares of CombiMatrix Capital Stock outstanding immediately prior to the Effective Time shall be treated in accordance with Section 1.5(a), and all holders of certificates representing shares of CombiMatrix Capital Stock that were outstanding immediately prior to the Effective Time shall cease to have any rights as stockholders of CombiMatrix; and (b) the stock transfer books of CombiMatrix shall be closed with respect to all shares of CombiMatrix Capital Stock outstanding immediately prior to the Effective Time. No further transfer of any such shares of CombiMatrix Capital Stock shall be made on such stock transfer books after the Effective Time. If, after the Effective Time, a valid certificate previously representing any shares of CombiMatrix Capital Stock immediately prior to the Effective Time (an *CombiMatrix Stock Certificate*) is presented to the Exchange Agent or to the Surviving Corporation, such CombiMatrix Stock Certificate shall be canceled and shall be exchanged as provided in Sections 1.5 or 1.8.

# 1.8 Surrender of Certificates.

(a) On or prior to the Closing Date, Invitae and CombiMatrix shall agree upon and select a reputable bank, transfer agent or trust company to act as exchange agent in the Merger (the *Exchange Agent*). At the Effective Time, Invitae shall deposit with the Exchange Agent: (i) the aggregate number of book-entry shares representing the Merger Consideration issuable to CombiMatrix stockholders pursuant to Section 1.5(a) and (ii) cash sufficient to make payments in lieu of fractional shares in accordance with Section 1.5(c). The book-entry shares of Invitae Common Stock and cash amounts so deposited with the Exchange Agent, together with any dividends or distributions received by the Exchange Agent with respect to such shares, are referred to collectively as the *Exchange Fund*.

(b) At or before the Effective Time, CombiMatrix will deliver to Invitae a true, complete and accurate listing of all record holders of CombiMatrix Capital Stock at the Effective Time, including the number and class of shares of CombiMatrix Capital Stock held by such record holder, and the number of shares of Invitae

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Common Stock such record holder is entitled to receive pursuant to Section 1.5. Promptly after the Effective Time, the Parties shall cause the Exchange Agent to mail to the Persons who were record holders of CombiMatrix Stock Certificates immediately prior to the Effective Time: (i) a letter of transmittal in customary form and containing such provisions as Invitae may reasonably specify (including a provision confirming that delivery of CombiMatrix Stock Certificates shall be effected, and risk of loss and title to CombiMatrix Stock Certificates shall pass, only upon delivery of such CombiMatrix Stock Certificates to the Exchange Agent); and (ii) instructions for effecting the surrender of CombiMatrix Stock Certificates in exchange for certificates representing Invitae Common Stock. Upon surrender of a CombiMatrix Stock Certificate to the Exchange Agent for exchange, together with a duly executed letter of transmittal and such other documents as may be reasonably required by the Exchange Agent or Invitae: (A) the holder of such CombiMatrix Stock Certificate shall be entitled to receive in exchange therefor a certificate representing the number of whole shares of Invitae Common Stock that such holder has the right to receive pursuant to the provisions of Section 1.5(a) (and cash in lieu of any fractional share of Invitae Common Stock pursuant to the provisions of Section 1.5(c)); and (B) the CombiMatrix Stock Certificate so surrendered shall be canceled. Until surrendered as contemplated by this Section 1.8(b), each CombiMatrix Stock Certificate shall be deemed, from and after the Effective Time, to represent only the right to receive shares of Invitae Common Stock (and cash in lieu of any fractional share of Invitae Common Stock). If any CombiMatrix Stock Certificate shall have been lost, stolen or destroyed, Invitae may, in its discretion and as a condition precedent to the delivery of any shares of Invitae Common Stock, require the owner of such lost, stolen or destroyed CombiMatrix Stock Certificate to provide an applicable affidavit with respect to such CombiMatrix Stock Certificate and post a bond indemnifying Invitae against any claim suffered by Invitae related to the lost, stolen or destroyed CombiMatrix Stock Certificate or any Invitae Common Stock issued in exchange therefor as Invitae may reasonably request.

- (c) No dividends or other distributions declared or made with respect to Invitae Common Stock with a record date after the Effective Time shall be paid to the holder of any unsurrendered CombiMatrix Stock Certificate with respect to the shares of Invitae Common Stock that such holder has the right to receive in the Merger until such holder surrenders such CombiMatrix Stock Certificate or an affidavit of loss or destruction in lieu thereof in accordance with this Section 1.8 (at which time such holder shall be entitled, subject to the effect of applicable abandoned property, escheat or similar laws, to receive all such dividends and distributions, without interest).
- (d) Any portion of the Exchange Fund that remains undistributed to holders of CombiMatrix Stock Certificates as of the date 180 days after the Closing Date shall be delivered to Invitae upon demand, and any holders of CombiMatrix Stock Certificates who have not theretofore surrendered their CombiMatrix Stock Certificates in accordance with this Section 1.8 shall thereafter look only to Invitae for satisfaction of their claims for Invitae Common Stock, cash in lieu of fractional shares of Invitae Common Stock and any dividends or distributions with respect to shares of Invitae Common Stock.
- (e) Each of the Exchange Agent, Invitae and the Surviving Corporation shall be entitled to deduct and withhold from any consideration deliverable pursuant to this Agreement such amounts as are required to be deducted or withheld from such consideration under the Code or under any other applicable Legal Requirement and shall be entitled to request any reasonably appropriate Tax forms, including Form W-9 (or the appropriate Form W-8, as applicable), from any recipient of payments hereunder. To the extent such amounts are so deducted or withheld, and remitted to the appropriate taxing authority, such amounts shall be treated for all purposes under this Agreement as having been paid to the Person to whom such amounts would otherwise have been paid.
- (f) No Party shall be liable to any holder of any CombiMatrix Stock Certificate or to any other Person with respect to any shares of Invitae Common Stock (or dividends or distributions with respect thereto) or for any cash amounts delivered to any public official pursuant to any applicable abandoned property law, escheat law or similar Legal Requirement.

**1.9 Further Action**. If, at any time after the Effective Time, any further action is determined by the Surviving Corporation to be necessary or desirable to carry out the purposes of this Agreement or to vest the Surviving Corporation with full right, title and possession of and to all rights and property of CombiMatrix, then

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the officers and directors of the Surviving Corporation shall be fully authorized, and shall use their commercially reasonable efforts (in the name of CombiMatrix, in the name of Merger Sub and otherwise) to take such action.

**1.10 Tax Consequences**. For federal income tax purposes, the Merger, together with the Warrant Exchange Offer, is intended to constitute a reorganization within the meaning of Section 368(a) of the Code and the Treasury Regulations promulgated thereunder. The Parties adopt this Agreement as a plan of reorganization within the meaning of Section 1.368-2(g) of the Treasury Regulations.

# Section 2. REPRESENTATIONS AND WARRANTIES OF COMBIMATRIX

CombiMatrix represents and warrants to Invitae and Merger Sub as follows, except as set forth in the written disclosure schedule delivered by CombiMatrix to Invitae (the *CombiMatrix Disclosure Schedule*). The CombiMatrix Disclosure Schedule shall be arranged in sections and subsections corresponding to the numbered and lettered sections and subsections contained in this Section 2. The disclosures in any section or subsection of the CombiMatrix Disclosure Schedule shall qualify other sections and subsections in this Section 2 to the extent it is reasonably clear from a reading of the disclosure that such disclosure is applicable to such other sections and subsections. The inclusion of any information in the CombiMatrix Disclosure Schedule (or any update thereto) shall not be deemed to be an admission or acknowledgment, in and of itself, that such information is required by the terms hereof to be disclosed, is material, has resulted in or would result in a CombiMatrix Material Adverse Effect, or is outside the Ordinary Course of Business. For the purposes of this Agreement, any references to documents delivered or made available to Invitae shall be deemed satisfied by Invitae s access to the two data rooms created for the Contemplated Transactions.

# 2.1 Subsidiaries; Due Organization; Etc.

- (a) CombiMatrix has no Subsidiaries, except for the Entities identified in Section 2.1(a) of the CombiMatrix Disclosure Schedule; and neither CombiMatrix nor any of the other Entities identified in Section 2.1(a) of the CombiMatrix Disclosure Schedule owns any capital stock of, or any equity interest of any nature in, any other Entity, other than the Entities identified in Section 2.1(a) of the CombiMatrix Disclosure Schedule. CombiMatrix has not agreed nor is obligated to make, nor is bound by any Contract under which it may become obligated to make, any future investment in or capital contribution to any other Entity. CombiMatrix has not, at any time, been a general partner of, or has otherwise been liable for any of the debts or other obligations of, any general partnership, limited partnership or other Entity.
- (b) Each of CombiMatrix and the CombiMatrix Subsidiaries is a corporation duly organized, validly existing and in good standing under the laws of the jurisdiction of its incorporation and has all necessary power and authority: (i) to conduct its business in the manner in which its business is currently being conducted; (ii) to own and use its assets in the manner in which its assets are currently owned and used; and (iii) to perform its obligations under all Contracts by which it is bound.
- (c) Each of CombiMatrix and the CombiMatrix Subsidiaries is qualified to do business as a foreign corporation, and is in good standing, under the laws of all jurisdictions where the nature of its business requires such qualification other than in jurisdictions where the failure to be so qualified individually or in the aggregate would not be reasonably expected to have a CombiMatrix Material Adverse Effect.
- **2.2 Certificate of Incorporation; Bylaws; Charters and Codes of Conduct**. CombiMatrix has delivered to Invitae accurate and complete copies of the certificate of incorporation, bylaws and other charter and organizational documents, including all currently effective amendments thereto, for CombiMatrix and each CombiMatrix Subsidiary.

Section 2.2 of the CombiMatrix Disclosure Schedule lists, and CombiMatrix has delivered to Invitae, accurate and complete copies of: (a) the charters of all committees of CombiMatrix s board of directors; and (b) any code of conduct or similar policy adopted by CombiMatrix or by the board of directors, or any committee of the board of directors, of CombiMatrix. Neither CombiMatrix nor any CombiMatrix Subsidiary has taken any action in breach or violation in any respect of any of the provisions of its certificate of

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incorporation, bylaws and other charter and organizational documents nor is in breach or violation in any respect of any of the provisions of its certificate of incorporation, bylaws and other charter and organizational documents.

## 2.3 Capitalization, Etc.

- (a) The authorized capital stock of CombiMatrix as of the date of this Agreement consists of (i) 50,000,000 shares of CombiMatrix Common Stock, par value \$0.001 per share, of which 2,918,726 shares have been issued and are outstanding as of the date of this Agreement, and (ii) 5,000,000 shares of convertible preferred stock, par value \$0.001 per share (the CombiMatrix Preferred Stock ), of which (A) 4,000 shares have been designated Series A Preferred Stock, none of which shares of Series A Preferred Stock are outstanding as of the date of this Agreement, (B) 2,000 shares have been designated Series B Preferred Stock, none of which shares of Series B Preferred Stock are outstanding as of the date of this Agreement, (C) 2,500 shares have been designated Series C Preferred Stock, none of which shares of Series C Preferred Stock are outstanding as of the date of this Agreement, (D) 12,000 shares have been designated Series D Preferred Stock, none of which shares of Series D Preferred Stock are outstanding as of the date of this Agreement, (E) 2,202 shares have been designated Series E Preferred Stock, none of which shares of Series E Preferred Stock are outstanding as of the date of this Agreement, and (F) 8,000 shares have been designated Series F Preferred Stock (the CombiMatrix Series F Preferred Stock ), 92 shares of which are issued and outstanding as of the date of this Agreement. Each share of CombiMatrix Series F Preferred Stock is convertible into the number of shares of CombiMatrix Common Stock equal to 1,000 divided by the conversion price of \$3.87. CombiMatrix does not hold any shares of its capital stock in its treasury. All of the outstanding shares of CombiMatrix Common Stock and CombiMatrix Preferred Stock have been duly authorized and validly issued, and are fully paid and nonassessable. As of the date of this Agreement, there are outstanding (i) CombiMatrix Series A Warrants to purchase an aggregate of 11,252 shares of CombiMatrix Common Stock at an exercise price of \$29.55 per share, (ii) CombiMatrix Series A Warrants to purchase an aggregate of 1,690 shares of CombiMatrix Common Stock at an exercise price of \$30.90 per share, (iii) CombiMatrix Series B Warrants to purchase an aggregate of 18,334 shares of CombiMatrix Common Stock at an exercise price of \$29.55 per share, (iv) CombiMatrix Series C Warrants to purchase an aggregate of 65,576 shares of CombiMatrix Common Stock at an exercise price of \$29.55 per share, (v) CombiMatrix Series D Warrants to purchase an aggregate of 388,365 shares of CombiMatrix Common Stock at an exercise price of \$46.80 per share, (vi) CombiMatrix Series E Warrants to purchase an aggregate of 46,676 shares of CombiMatrix Common Stock at an exercise price of \$16.50 per share, (vii) CombiMatrix PIPE Warrants to purchase an aggregate of 100,847 shares of CombiMatrix Common Stock at an exercise price of \$16.50 per share, (viii) CombiMatrix PIPE Warrants to purchase an aggregate of 1,831 shares of CombiMatrix Common Stock at an exercise price of \$32.51 per share, and (ix) CombiMatrix Series F Warrants to purchase an aggregate of 2,067,183 shares of CombiMatrix Common Stock at an exercise price of \$5.17 per share (the CombiMatrix Series F Warrants and, collectively with the warrants referred to in the foregoing clauses (i) through (viii), the *CombiMatrix Warrants* ). Section 2.3(a) of the CombiMatrix Disclosure Schedule lists, as of the date of this Agreement, (i) each record holder of issued and outstanding CombiMatrix Common Stock and the number of shares held, (ii) each record holder of issued and outstanding CombiMatrix Series F Preferred Stock and the number of shares held and (iii) (A) each record holder of issued and outstanding CombiMatrix Warrants, (B) the number of shares of CombiMatrix Common Stock subject to each such CombiMatrix Warrant, (C) the series of each such CombiMatrix Warrant, (D) the exercise price of each such CombiMatrix Warrant, and (E) the expiration date of each such CombiMatrix Warrant.
- (b) Except as set forth in Section 2.3(b) of the CombiMatrix Disclosure Schedule, (i) none of the outstanding shares of CombiMatrix Common Stock or CombiMatrix Preferred Stock is entitled or subject to any preemptive right, right of participation, right of maintenance or any similar right, (ii) none of the outstanding shares of CombiMatrix Common Stock or CombiMatrix Preferred Stock is subject to any right of first refusal in favor of CombiMatrix, (iii) there are no outstanding bonds, debentures, notes or other indebtedness of CombiMatrix having a right to vote on any matters on which the CombiMatrix stockholders have a right to vote, and (iv) there is no CombiMatrix Contract relating to the

voting or registration of, or restricting any Person from purchasing, selling, pledging or otherwise disposing of (or granting any option or similar right with respect to),

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any shares of CombiMatrix Common Stock or CombiMatrix Preferred Stock. Except as set forth in Section 2.3(b) of the CombiMatrix Disclosure Schedule, CombiMatrix is not under any obligation, nor is it bound by any Contract pursuant to which it may become obligated, to repurchase, redeem or otherwise acquire any outstanding shares of CombiMatrix Common Stock, CombiMatrix Preferred Stock, CombiMatrix Warrants or other securities.

Section 2.3(b) of the CombiMatrix Disclosure Schedule accurately and completely lists all repurchase rights held by CombiMatrix and specifies (i) each holder of CombiMatrix Common Stock (including shares issued pursuant to the exercise of stock options), CombiMatrix Preferred Stock or CombiMatrix Warrant subject to such repurchase right, (ii) the original date of purchase of such CombiMatrix Common Stock, CombiMatrix Preferred Stock or CombiMatrix Warrant, (iii) the number of shares of CombiMatrix Common Stock or CombiMatrix Preferred Stock or shares underlying CombiMatrix Warrants subject to such repurchase rights, (iv) the purchase price paid by such holder, (v) any vesting schedule under which such repurchase rights lapse, and (vi) whether, to the Knowledge of CombiMatrix, the holder of such CombiMatrix Common Stock or CombiMatrix Preferred Stock subject to such repurchase right filed an election under Section 83(b) of the Code with respect to such CombiMatrix Common Stock or CombiMatrix Preferred Stock within thirty (30) days of purchase.

- (c) Except for the CombiMatrix 2006 Stock Incentive Plan (the 2006 Plan ), and except as set forth in Section 2.3(c) of the CombiMatrix Disclosure Schedule, CombiMatrix does not have any stock option plan or any other plan, program, agreement or arrangement providing for any equity-based compensation for any Person. CombiMatrix has reserved 600,000 shares of CombiMatrix Common Stock for issuance under the 2006 Plan. Of such reserved shares of CombiMatrix Common Stock, (i) 823 shares have been previously issued pursuant to the exercise of options, (ii) 34,246 shares have been previously issued pursuant to the settlement of RSUs, (iii) 97 shares have been previously issued pursuant to the grants of restricted stock, (iv) options to purchase 64,310 shares have been granted and are currently outstanding, (v) 98,049 shares are issuable upon settlement of currently outstanding RSUs, and (vi) 402,475 shares of CombiMatrix Common Stock remain available for future award grants pursuant to the 2006 Plan. Section 2.3(c) of the CombiMatrix Disclosure Schedule sets forth the following information (A) with respect to each CombiMatrix Option outstanding as of the date of this Agreement: (1) the name of the optionee; (2) the number of shares of CombiMatrix Common Stock subject to such CombiMatrix Option as of the date of this Agreement; (3) the exercise price of such CombiMatrix Option; (4) the date on which such CombiMatrix Option was granted; (5) the vesting schedule applicable to such CombiMatrix Option, including the number of vested and unvested shares and whether by its terms the vesting of such CombiMatrix Option would be accelerated by the Contemplated Transactions; (6) the date on which such CombiMatrix Option expires; and (7) whether such CombiMatrix Option is an incentive stock option (as defined in the Code) or a non-qualified stock option; and (B) with respect to each CombiMatrix RSU outstanding as of the date of this Agreement: (1) the name of the holder; (2) the number of shares of CombiMatrix Common Stock issuable upon settlement of the RSU as of the date of this Agreement; (3) the date on which such CombiMatrix RSU was granted; (4) the vesting schedule applicable to such CombiMatrix RSU, including the extent vested to date and whether by its terms the vesting of such CombiMatrix RSU would be accelerated by the Contemplated Transactions; and (5) the date on which such CombiMatrix RSU expires. CombiMatrix has made available to Invitae an accurate and complete copy of the 2006 Plan and forms of all stock option agreements and RSU agreements approved for use thereunder. Except as set forth in Section 2.3(c) of the CombiMatrix Disclosure Schedule or as contemplated by Section 1.5 of this Agreement, no vesting of CombiMatrix Options or CombiMatrix RSUs will accelerate in connection with the execution of this Agreement or the closing of the Contemplated Transactions.
- (d) Except for the outstanding CombiMatrix Options and CombiMatrix RSUs identified in Section 2.3(c) of the CombiMatrix Disclosure Schedule and for the outstanding CombiMatrix Warrants and CombiMatrix Series F Preferred Stock identified in Section 2.3(a) of the CombiMatrix Disclosure Schedule, there is no: (i) outstanding subscription, option, call, warrant or right (whether or not currently exercisable) to acquire any shares of the capital stock or other securities of CombiMatrix or any of its Subsidiaries; (ii) outstanding security, instrument or obligation

that is or may become convertible into or exchangeable for any shares of the capital stock or other securities of CombiMatrix or any of its Subsidiaries; (iii) stockholder rights plan (or similar plan commonly referred to as a poison pill ) or Contract under which CombiMatrix or any of its

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Subsidiaries is or may become obligated to sell or otherwise issue any shares of its capital stock or any other securities; or (iv) condition or circumstance that may give rise to or provide a basis for the assertion of a claim by any Person to the effect that such Person is entitled to acquire or receive any shares of capital stock or other securities of CombiMatrix or any of its Subsidiaries. There are no outstanding or authorized stock appreciation rights, phantom stock, profit participation or other similar rights with respect to CombiMatrix or any of its Subsidiaries.

- (e) All outstanding shares of CombiMatrix Common Stock and CombiMatrix Preferred Stock, as well as all CombiMatrix Options, CombiMatrix RSUs, CombiMatrix Warrants and all other securities of CombiMatrix, have been issued and granted in material compliance with (i) all applicable securities laws and other applicable Legal Requirements and (ii) all requirements set forth in applicable Contracts. CombiMatrix has delivered to Invitae accurate and complete copies of all outstanding CombiMatrix RSUs and CombiMatrix Warrants (other than the CombiMatrix Series F Warrants). CombiMatrix has delivered to Invitae an accurate and complete copy of the form of CombiMatrix Series F Warrant, and there are no deviations between the terms of any outstanding CombiMatrix Series F Warrants and the terms reflected in such form.
- (f) With respect to the Merger as a Fundamental Transaction (as defined in CombiMatrix s Certificate of Designation of Preferences, Rights and Limitations of Series F Convertible Preferred Stock as in effect on the date of this Agreement the *CombiMatrix Series F Preferences Certificate* ): (i) the Fundamental Transaction Amount (as defined in the CombiMatrix Series F Preferences Certificate) is a number of shares of Invitae Common Stock equal to the product of (x) the Exchange Ratio multiplied by (y) the number of shares of CombiMatrix Common Stock underlying a share of outstanding CombiMatrix Series F Preferred Stock on the date immediately prior to the Effective Time; and (ii) such foregoing product is greater than 130% of the Stated Value (as defined in the CombiMatrix Series F Preferences Certificate) of a share of outstanding CombiMatrix Series F Preferred Stock on the date of the Effective Time.

### 2.4 SEC Filings; Financial Statements.

- (a) CombiMatrix has filed all reports required to be filed by it with the SEC since January 1, 2014, and CombiMatrix has made available to Invitae (including through the SEC s EDGAR database) true, correct and complete copies of all such reports (collectively, the *CombiMatrix SEC Documents*). As of their respective dates, each of the CombiMatrix SEC Documents complied in all material respects with the applicable requirements of the Exchange Act, and none of the CombiMatrix SEC Documents, as of their respective dates, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. All statements, reports, schedules, forms and other documents required to have been filed by CombiMatrix or its officers with the SEC have been so filed on a timely basis. The certifications and statements required by (A) Rule 13a-14 under the Exchange Act and (B) 18 U.S.C. §1350 (Section 906 of the Sarbanes-Oxley Act) relating to the CombiMatrix SEC Documents (collectively, the *CombiMatrix Certifications*) are accurate and complete and comply as to form and content with all applicable Legal Requirements. As used in this Section 2, the term file and variations thereof shall be broadly construed to include any manner in which a document or information is furnished, supplied or otherwise made available to the SEC.
- (b) Each of the consolidated financial statements (including, in each case, any notes thereto) contained in the CombiMatrix SEC Documents was prepared in accordance with United States generally accepted accounting principles ( *GAAP* ) throughout the periods indicated (except as may be indicated in the notes thereto and except that financial statements included with interim reports do not contain all notes to such financial statements) and each fairly presented in all material respects the consolidated financial position, results of operations and changes in stockholders equity and cash flows of Invitae and its consolidated subsidiaries as at the respective dates thereof and for the respective periods indicated therein (subject, in the case of unaudited statements, to normal year-end adjustments

which are not expected, individually or in the aggregate, to be material). Other than as expressly disclosed in the CombiMatrix SEC Documents filed prior to the date of this Agreement, there has been no material change in CombiMatrix s accounting methods or principles prior to the

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date of this Agreement that would be required to be disclosed in CombiMatrix s financial statements in accordance with GAAP. The books of account and other financial records of CombiMatrix are true and complete in all material respects.

- (c) CombiMatrix s auditor has at all times since the date of enactment of the Sarbanes-Oxley Act been: (i) a registered public accounting firm (as defined in Section 2(a)(12) of the Sarbanes-Oxley Act); (ii) to the Knowledge of CombiMatrix, independent with respect to CombiMatrix within the meaning of Regulation S-X under the Exchange Act; and (iii) to the Knowledge of CombiMatrix, in compliance with subsections (g) through (l) of Section 10A of the Exchange Act and the rules and regulations promulgated by the SEC and the Public Company Accounting Oversight Board thereunder.
- (d) Except as set forth in Section 2.4(d) of the CombiMatrix Disclosure Schedule, from January 1, 2014 through the date of this Agreement, CombiMatrix has not received any comment letter from the SEC or the staff thereof or any correspondence from NASDAQ or the staff thereof relating to the delisting or maintenance of listing of the CombiMatrix Common Stock on The NASDAQ Capital Market. CombiMatrix has not disclosed any unresolved comments in its SEC Documents.
- (e) Since January 1, 2014, there have been no formal internal investigations regarding financial reporting or accounting policies and practices discussed with, reviewed by or initiated at the direction of the chief executive officer or chief financial officer of CombiMatrix, the CombiMatrix Board of Directors or any committee thereof, other than ordinary course audits or reviews of accounting policies and practices or internal controls required by the Sarbanes-Oxley Act.
- **(f)** CombiMatrix is in compliance in all material respects with the applicable provisions of the Sarbanes-Oxley Act and the applicable listing and governance rules and regulations of The NASDAQ Capital Market.
- (g) CombiMatrix maintains a system of internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act) that is sufficient to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with GAAP, including policies and procedures sufficient to provide reasonable assurance (i) that CombiMatrix maintains records that in reasonable detail accurately and fairly reflect CombiMatrix s transactions and dispositions of assets, (ii) that transactions are recorded as necessary to permit preparation of financial statements in accordance with GAAP, (iii) that receipts and expenditures are made only in accordance with authorizations of management and the CombiMatrix Board of Directors, and (iv) regarding prevention or timely detection of the unauthorized acquisition, use or disposition of CombiMatrix s assets that could have a material effect on CombiMatrix s financial statements. CombiMatrix has evaluated the effectiveness of CombiMatrix s internal control over financial reporting and, to the extent required by applicable Legal Requirements, presented in any applicable CombiMatrix SEC Document that is a report on Form 10-K or Form 10-Q (or any amendment thereto) its conclusions about the effectiveness of the internal control over financial reporting as of the end of the period covered by such report or amendment based on such evaluation. CombiMatrix has disclosed to CombiMatrix s auditors and the Audit Committee of the CombiMatrix Board of Directors (and made available to Invitae a summary of the significant aspects of such disclosure) (A) all significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting that are reasonably likely to adversely affect CombiMatrix s ability to record, process, summarize and report financial information and (B) any fraud, whether or not material, that involves management or other employees who have a significant role in CombiMatrix s internal control over financial reporting. Except as disclosed in the CombiMatrix SEC Documents filed prior to the date of this Agreement, CombiMatrix has not identified any material weaknesses in the design or operation of CombiMatrix s internal control over financial reporting. Since December 31, 2014, there have been no material changes in CombiMatrix s internal control over financial reporting.

**(h)** CombiMatrix s disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act) are reasonably designed to ensure that all information (both financial and non-financial) required to be disclosed by CombiMatrix in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the

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SEC, and that all such information is accumulated and communicated to CombiMatrix s management as appropriate to allow timely decisions regarding required disclosure and to make the CombiMatrix Certifications.

- **2.5 Absence of Changes**. Except as set forth in <u>Section 2.5</u> of the CombiMatrix Disclosure Schedule, between January 1, 2017 and the date of this Agreement and except as otherwise expressly contemplated by this Agreement:
- (a) There has not been any CombiMatrix Material Adverse Effect or an event or development that would, individually or in the aggregate, reasonably be expected to have a CombiMatrix Material Adverse Effect;
- (b) There has not been any material loss, damage or destruction to, or any material interruption in the use of, any of the assets or business of CombiMatrix or any CombiMatrix Subsidiary (whether or not covered by insurance);
- (c) CombiMatrix has not: (i) declared, accrued, set aside or paid any dividend or made any other distribution in respect of any shares of capital stock; or (ii) repurchased, redeemed or otherwise reacquired any shares of capital stock or other securities except for the repurchase or reacquisition of shares pursuant to CombiMatrix rights arising upon an individual s termination as an employee, director or consultant;
- (d) CombiMatrix has not sold, issued or granted, or authorized the issuance of: (i) any capital stock or other security (except for CombiMatrix Common Stock issued upon the valid exercise of outstanding CombiMatrix Options or CombiMatrix Warrants or upon the settlement of outstanding CombiMatrix RSUs); (ii) any option, warrant or right to acquire any capital stock or any other security (except for the CombiMatrix Options and CombiMatrix RSUs identified in Section 2.3(c) of the CombiMatrix Disclosure Schedule); or (iii) any instrument convertible into or exchangeable for any capital stock or other security (except for the CombiMatrix Options and CombiMatrix RSUs identified in Section 2.3(c) of the CombiMatrix Disclosure Schedule);
- (e) There has been no amendment to the certificate of incorporation, bylaws or other charter or organizational documents of CombiMatrix or any CombiMatrix Subsidiary, and neither CombiMatrix nor any CombiMatrix Subsidiary has effected or been a party to any merger, consolidation, share exchange, business combination, recapitalization, reclassification of shares, stock split, reverse stock split or similar transaction;
- (f) CombiMatrix has not amended or waived any of its rights under, or exercised its discretion to permit the acceleration of vesting under any provision of: (i) the 2006 Plan; (ii) any CombiMatrix Option, CombiMatrix RSU or any Contract evidencing or relating to any CombiMatrix Option or CombiMatrix RSU; (iii) any restricted stock purchase agreement; or (iv) any other Contract evidencing or relating to any equity award (whether payable in cash or stock);
- (g) Neither CombiMatrix nor any CombiMatrix Subsidiary has formed any Subsidiary or acquired any equity interest or other interest in any other Entity;
- (h) Neither CombiMatrix nor any CombiMatrix Subsidiary has: (i) lent money to any Person; (ii) incurred or guaranteed any indebtedness; (iii) issued or sold any debt securities or options, warrants, calls or other rights to acquire any debt securities; (iv) guaranteed any debt securities of others; or (v) made any capital expenditure or commitment in excess of \$50,000;
- (i) Neither CombiMatrix nor any CombiMatrix Subsidiary has changed any of its accounting methods, principles or practices;

(j) Neither CombiMatrix nor any CombiMatrix Subsidiary has made, changed or revoked any material Tax election, filed any material amendment to any Tax Return, adopted or changed any accounting method in respect of Taxes, changed any annual Tax accounting period, entered into any Tax allocation agreement, Tax sharing agreement or Tax indemnity agreement, other than commercial contracts entered into in the Ordinary Course of Business with vendors, customers or landlords, entered into any closing agreement with respect to any Tax, settled or compromised any claim, notice, audit report or assessment in respect of material Taxes, applied for or entered into any ruling from any Tax authority with respect to Taxes, surrendered any right to claim a

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material Tax refund, or consented to any extension or waiver of the statute of limitations period applicable to any material Tax claim or assessment;

- (k) Neither CombiMatrix nor any CombiMatrix Subsidiary has commenced or settled any Legal Proceeding;
- (I) Neither CombiMatrix nor any CombiMatrix Subsidiary has entered into any material transaction outside the Ordinary Course of Business;
- (m) Neither CombiMatrix nor any CombiMatrix Subsidiary has purchased, leased, licensed or otherwise acquired any material assets, properties or rights nor sold, leased, licensed or otherwise disposed of any of its material assets, properties or rights, nor has any Encumbrance been granted with respect to such assets, properties or rights, except for Encumbrances of immaterial assets in the Ordinary Course of Business consistent with past practices;
- (n) There has been no entry into, amendment or termination of any CombiMatrix Material Contract;
- (o) There has been no (i) material change in pricing or royalties or other payments set or charged by CombiMatrix or any CombiMatrix Subsidiary to its customers or licensees, (ii) agreement by CombiMatrix or any CombiMatrix Subsidiary to change pricing or royalties or other payments set or charged by persons who have licensed Intellectual Property to CombiMatrix or any CombiMatrix Subsidiary, or (iii) material change in pricing or royalties or other payments set or charged by vendors to CombiMatrix or any CombiMatrix Subsidiary or persons who have licensed Intellectual Property to CombiMatrix or any CombiMatrix Subsidiary; and
- (p) Neither CombiMatrix nor any CombiMatrix Subsidiary has negotiated, agreed or committed to take any of the actions referred to in clauses (c) through (o) above (other than negotiations between the Parties to enter into this Agreement).
- 2.6 Title to Assets. Each of CombiMatrix and the CombiMatrix Subsidiaries owns, and has good and valid title to, or, in the case of leased properties and assets, valid leasehold interests in, all tangible properties or assets and equipment used or held for use in its business or operations or purported to be owned by it, including all assets reflected in the books and records of CombiMatrix or any CombiMatrix Subsidiary as being owned by CombiMatrix or such CombiMatrix Subsidiary. All of said assets are owned by CombiMatrix or a CombiMatrix Subsidiary free and clear of any Encumbrances, except for: (i) any lien for current Taxes not yet due and payable or for Taxes that are being contested in good faith and for which adequate reserves have been made on the CombiMatrix Unaudited Interim Balance Sheet; (ii) minor liens that have arisen in the Ordinary Course of Business and that do not (in any case or in the aggregate) materially detract from the value of the assets subject thereto or materially impair the operations of CombiMatrix or any CombiMatrix Subsidiary; and (iii) liens listed in Section 2.6 of the CombiMatrix Disclosure Schedule.
- **2.7 Real Property; Leasehold**s. Neither CombiMatrix nor any CombiMatrix Subsidiary owns any real property or any interest in real property, except for the leaseholds created under the real property leases identified in <u>Section 2.7</u> of the CombiMatrix Disclosure Schedule which are in full force and effect and with no existing default thereunder.

### 2.8 Intellectual Property.

(a) Except as identified in <u>Section 2.8(a)</u> of the CombiMatrix Disclosure Schedule, CombiMatrix, directly or through a CombiMatrix Subsidiary, owns, or has the right to use, and has the right to bring actions for the infringement of, all CombiMatrix IP Rights.

- (b) <u>Section 2.8(b)</u> of the CombiMatrix Disclosure Schedule is an accurate, true and complete listing of all CombiMatrix Registered IP.
- (c) <u>Section 2.8(c)</u> of the CombiMatrix Disclosure Schedule accurately identifies (i) all CombiMatrix IP Rights licensed to CombiMatrix or any CombiMatrix Subsidiary (other than (A) any non-customized software

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- that (1) is so licensed solely in executable or object code form pursuant to a non-exclusive, internal use software license and other Intellectual Property associated with such software and (2) is not incorporated into, or material to the development, manufacturing, or distribution of, any of CombiMatrix s or any CombiMatrix Subsidiary s products, technology or services and (B) any Intellectual Property licensed ancillary to the purchase or use of equipment, reagents or other materials); (ii) the corresponding CombiMatrix Contracts pursuant to which such CombiMatrix IP Rights are licensed to CombiMatrix or any CombiMatrix Subsidiary; and (iii) whether the license or licenses granted to CombiMatrix or any CombiMatrix Subsidiary are exclusive or non-exclusive.
- (d) Section 2.8(d) of the CombiMatrix Disclosure Schedule accurately identifies each CombiMatrix Contract pursuant to which any Person has been granted any license under, or otherwise has received or acquired any right (whether or not currently exercisable) or interest in, any CombiMatrix IP Rights. Except as identified in Section 2.8(d) of the CombiMatrix Disclosure Schedule, CombiMatrix is not bound by, and no CombiMatrix IP Rights are subject to, any Contract containing any covenant or other provision that in any way limits or restricts the ability of CombiMatrix or any CombiMatrix Subsidiary to use, exploit, assert or enforce any CombiMatrix IP Rights anywhere in the world, in each case as would limit the business of CombiMatrix.
- (e) Except as identified in Section 2.8(e) of the CombiMatrix Disclosure Schedule, to the Knowledge of CombiMatrix, CombiMatrix or one of its Subsidiaries exclusively owns all right, title, and interest to and in CombiMatrix IP Rights (other than CombiMatrix IP Rights (i) licensed to CombiMatrix or one of its Subsidiaries, as identified in Section 2.8(c) of the CombiMatrix Disclosure Schedule, (ii) any non-customized software that (A) is so licensed solely in executable or object code form pursuant to a non-exclusive, internal use software license and other Intellectual Property associated with such software and (B) is not incorporated into, or material to the development, manufacturing, or distribution of, any of CombiMatrix s or any CombiMatrix Subsidiary s products, technology or services, and (iii) any Intellectual Property licensed ancillary to the purchase or use of equipment, reagents or other materials) free and clear of any Encumbrances (other than those Encumbrances granted pursuant to the CombiMatrix Contracts listed in Section 2.8(d) of the CombiMatrix Disclosure Schedule). Without limiting the generality of the foregoing:
- (i) All documents and instruments necessary to register or apply for or renew registration of all CombiMatrix Registered IP have been validly executed, delivered and filed in a timely manner with the appropriate Governmental Body.
- (ii) Each Person who is or was an employee or contractor of CombiMatrix or any CombiMatrix Subsidiary and who is or was involved in the creation or development of any CombiMatrix IP Rights has signed an agreement (A) containing an assignment of such Intellectual Property to CombiMatrix or such Subsidiary, (B) containing confidentiality provisions protecting trade secrets and confidential information of CombiMatrix and its Subsidiaries and, (C) to the Knowledge of CombiMatrix, which is valid and enforceable. No current or former stockholder, officer, director, or employee of CombiMatrix or any of its Subsidiaries has any claim, right (whether or not currently exercisable), or interest to or in any CombiMatrix IP Rights. To the Knowledge of CombiMatrix and its Subsidiaries, no employee of CombiMatrix or any or any CombiMatrix Subsidiary is (a) bound by or otherwise subject to any Contract restricting him or her from performing his or her duties for CombiMatrix or such Subsidiary or (b) in breach of any Contract with any former employer or other Person concerning CombiMatrix IP Rights or confidentiality provisions protecting trade secrets and confidential information comprising CombiMatrix IP Rights.
- (iii) No funding, facilities or personnel of any Governmental Body were used, directly or indirectly, to develop or create, in whole or in part, any CombiMatrix IP Rights in which CombiMatrix or any of its Subsidiaries has an ownership interest.

- (iv) CombiMatrix and each of its Subsidiaries has taken reasonable steps to maintain the confidentiality of and otherwise protect and enforce its rights in all proprietary information that CombiMatrix or such Subsidiary holds as a trade secret.
- (v) Neither CombiMatrix nor any of its Subsidiaries has assigned or otherwise transferred ownership of, or agreed to assign or otherwise transfer ownership of, any CombiMatrix IP Rights to any other Person.

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- (vi) Except as identified in <u>Section 2.8(e)(vi)</u> of the CombiMatrix Disclosure Schedule, to the Knowledge of CombiMatrix and its Subsidiaries, the CombiMatrix IP Rights constitute all Intellectual Property necessary for CombiMatrix and its Subsidiaries to conduct its business as currently conducted and planned to be conducted.
- (f) CombiMatrix has delivered, or made available to Invitae, a complete and accurate copy, in all material respects, of all CombiMatrix IP Rights Agreements. Neither CombiMatrix nor any CombiMatrix Subsidiary is a party to any Contract (A) pursuant to which the execution, delivery and performance of this Agreement and the consummation of the Contemplated Transactions will constitute a breach, or (B) as a result of such execution, delivery and performance of this Agreement and the consummation of the Contemplated Transactions will cause the forfeiture or termination of or Encumbrance upon, or the grant of any license or other right to, or give rise to a right of forfeiture or termination of or Encumbrance upon, any CombiMatrix IP Rights or impair the right of CombiMatrix or the Surviving Corporation and its Subsidiaries to use, sell or license any CombiMatrix IP Rights or portion thereof. With respect to each of the CombiMatrix IP Rights Agreements: (i) each such agreement is valid and binding on CombiMatrix or its Subsidiaries, as applicable, and to the Knowledge of CombiMatrix the applicable third party(ies), and in full force and effect; (ii) CombiMatrix has not received any written notice of termination or cancellation under such agreement, or received any written notice of breach or default under such agreement, which breach has not been cured or waived; and (iii) neither CombiMatrix nor its Subsidiaries, and to the Knowledge of CombiMatrix, no other party to any such agreement, is in breach or default thereof in any material respect.
- (g) Except as identified in Section 2.8(g) of the CombiMatrix Disclosure Schedule, the manufacture, marketing, license, sale or intended use of any product, technology or service currently licensed or sold or under development by CombiMatrix or any of its Subsidiaries (i) does not violate any license or agreement between CombiMatrix or its Subsidiaries and any third party, and, to the Knowledge of CombiMatrix and its Subsidiaries, (ii) does not infringe or misappropriate any Intellectual Property right of any other party. Except as identified in Section 2.8(g) of the CombiMatrix Disclosure Schedule, CombiMatrix has disclosed in correspondence to Invitae the third-party patents and patent applications found during all freedom to operate searches that were conducted by CombiMatrix or its Subsidiaries related to any product, technology or service currently licensed or sold or under development by CombiMatrix or its Subsidiaries. To the Knowledge of CombiMatrix and its Subsidiaries, no third party is infringing upon, or violating any license or agreement with CombiMatrix or its Subsidiaries relating to, any CombiMatrix IP Rights. There is no current or pending challenge, claim or Legal Proceeding (including opposition, interference or other proceeding in any patent or other government office) contesting the validity, ownership or right to use, sell, license or dispose of any CombiMatrix IP Rights, nor has CombiMatrix or any of its Subsidiaries received any written notice asserting that any CombiMatrix IP Rights or the proposed use, sale, license or disposition thereof conflicts with or infringes or misappropriates or will conflict with or infringe or misappropriate the rights of any other Person.
- (h) Except as identified in <u>Section 2.8(h)</u> of the CombiMatrix Disclosure Schedule, each item of CombiMatrix IP Rights that is CombiMatrix Registered IP is and at all times has been filed and maintained in compliance with all applicable Legal Requirements, and all Filings, payments and other actions required to be made or taken to maintain such item of CombiMatrix Registered IP in full force and effect have been made by the applicable deadline.
- (i) Except as identified in <u>Section 2.8(i)</u> of the CombiMatrix Disclosure Schedule, to the Knowledge of CombiMatrix, no trademark (whether registered or unregistered) or trade name owned, used, or applied for by CombiMatrix or any of its Subsidiaries conflicts or interferes with any trademark (whether registered or unregistered) or trade name owned, used, or applied for by any other Person. None of the goodwill associated with or inherent in any trademark (whether registered or unregistered) in which CombiMatrix or any of its Subsidiaries has or purports to have an ownership interest has been impaired as determined by CombiMatrix or any of its Subsidiaries in accordance with GAAP.

- (j) Except as set forth in the Contracts listed in Sections 2.8(c) or 2.8(d) of the CombiMatrix Disclosure Schedule,
- (i) neither CombiMatrix nor any of its Subsidiaries is bound by any Contract to indemnify, defend,

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hold harmless, or reimburse any other Person with respect to any Intellectual Property infringement, misappropriation, or similar claim, and (ii) neither CombiMatrix nor any of its Subsidiaries has ever assumed, or agreed to discharge or otherwise take responsibility for, any existing or potential liability of another Person for infringement, misappropriation, or violation of any Intellectual Property right, which assumption, agreement or responsibility remains in force as of the date of this Agreement.

- (k) None of the Intellectual Property used in the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted (i) has materially malfunctioned or failed or (ii) contains any viruses, worms, Trojan horses, bugs, faults, or other devices, errors or contaminants that (x) significantly disrupt or adversely affect functionality of such Intellectual Property or any other Intellectual Property or (y) enable or assist any person to access without authorization any such Intellectual Property.
- (I) No Open Source Software is included in, integrated or bundled with, or otherwise necessary for the use of (or used in) any of the Intellectual Property used in the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted. CombiMatrix has established and consistently maintained safeguards against the destruction, loss or alteration of any Data collected or obtained by CombiMatrix or any CombiMatrix Subsidiary or otherwise included within the Intellectual Property used in the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted.
- (m) All Data collected or obtained by CombiMatrix or any CombiMatrix Subsidiary or otherwise included within the Intellectual Property used in the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted has at all times been collected, obtained and used in accordance with all Legal Requirements, CombiMatrix s privacy policies and all contractual commitments of CombiMatrix or any CombiMatrix Subsidiary in all respects. No Consent of or notice to any third party is required with respect to the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted, including pursuant to CombiMatrix s privacy policies and contractual commitments. CombiMatrix s privacy policies and contractual commitments will not require the Consent of or notice to any third party with respect to the consummation of any of the Contemplated Transactions.
- (n) No source code for any proprietary software of CombiMatrix or any CombiMatrix Subsidiary has been delivered, licensed, or made available to any Person who is not an employee of CombiMatrix (including any escrow agent). No Person has, or has asserted, any right (present, contingent or otherwise) to access any proprietary source code owned, or purported to be owned, by CombiMatrix or any CombiMatrix Subsidiary, and neither CombiMatrix nor any CombiMatrix Subsidiary has any duty or obligation (whether present, contingent, or otherwise) to deliver, license, or make available the source code for any such software to any Person who is not an employee of CombiMatrix (including any escrow agent).
- (o) CombiMatrix and its Subsidiaries as well as the conduct of the business of CombiMatrix and each CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted are and have been in all respects in compliance with all Data Security Requirements. No notices have been received by, and no claims, charges or complaints have been made against, CombiMatrix or any CombiMatrix Subsidiary by any Governmental Authority or other Person alleging a violation of any Data Security Requirements. Neither CombiMatrix nor any CombiMatrix Subsidiary has received any notice or has Knowledge of any pending or threatened Legal Proceeding alleging a violation of any Person s privacy, personal or confidentiality rights under any applicable Legal Requirement.
- (p) The IT Assets operate and perform in a manner that permits CombiMatrix to operate the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted. CombiMatrix has instituted commercially reasonable backup and disaster recovery plans, procedures and facilities, consistent with

current industry standards, for the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted to ensure that the IT Assets and the Data stored thereon or otherwise collected or obtained by CombiMatrix or any CombiMatrix Subsidiary or included within the Intellectual Property used in the business of CombiMatrix or any CombiMatrix Subsidiary as

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presently conducted and as presently proposed to be conducted (including any Personal Information) (the *CombiMatrix Data*) are protected against loss and unauthorized access, use, interruption, modification, corruption, disclosure or other misuse. To the Knowledge of CombiMatrix, there have been no failures, breakdowns, outages, bugs, continued substandard performance, or other adverse events affecting any of the IT Assets (as a whole or with respect to any portion thereof) that have caused any disruption or interruption in or to the use of any of the IT Assets. To the Knowledge of CombiMatrix, there have been no breaches of or unauthorized access to or other misuse (either suspected or actual) of the IT Assets or the CombiMatrix Data.

- **2.9 Agreements, Contracts and Commitments**. <u>Section 2.9</u> of the CombiMatrix Disclosure Schedule identifies the following CombiMatrix Contracts, effective as of the date of this Agreement (each, a *CombiMatrix Material Contract* and collectively, the *CombiMatrix Material Contracts* ):
- (a) each CombiMatrix Contract relating to any bonus, deferred compensation, severance, incentive compensation, pension, profit-sharing or retirement plans, or any other employee benefit plans or arrangements;
- (b) each CombiMatrix Contract relating to the employment of, or the performance of employment-related services by, any Person, including any employee, consultant or independent contractor, not terminable by CombiMatrix or its Subsidiaries on ninety (90) days notice without liability, except to the extent general principles of wrongful termination law may limit CombiMatrix s, CombiMatrix s Subsidiaries or such successor s ability to terminate employees at will;
- (c) each CombiMatrix Contract relating to any agreement or plan, including any stock option plan, stock appreciation right plan or stock purchase plan, any of the benefits of which will be increased, or the vesting of benefits of which will be accelerated, by the occurrence of any of the Contemplated Transactions (either alone or in conjunction with any other event, such as termination of employment), or the value of any of the benefits of which will be calculated on the basis of any of the Contemplated Transactions;
- (d) each CombiMatrix Contract relating to any agreement of indemnification or guaranty not entered into in the Ordinary Course of Business other than indemnification agreements between CombiMatrix and any of its respective officers or directors:
- (e) each CombiMatrix Contract relating to any agreement, contract or commitment containing (A) any covenant limiting the freedom of CombiMatrix, its Subsidiaries or the Surviving Corporation to engage in any line of business or compete with any Person, (B) any most-favored pricing arrangement, (C) any exclusivity provision, or (D) any non-solicitation provision;
- (f) each CombiMatrix Contract relating to any agreement, contract or commitment relating to capital expenditures and involving obligations after the date of this Agreement in excess of \$25,000 and not cancelable without penalty;
- (g) each CombiMatrix Contract relating to any agreement, contract or commitment currently in force relating to the disposition or acquisition of material assets or any ownership interest in any Entity;
- (h) each CombiMatrix Contract relating to any mortgages, indentures, loans, notes or credit agreements, security agreements or other agreements or instruments relating to the borrowing of money or extension of credit in excess of \$25,000 or creating any material Encumbrances with respect to any assets of CombiMatrix or any CombiMatrix Subsidiary or any loans or debt obligations with officers or directors of CombiMatrix;

(i) each CombiMatrix Contract relating to (i) any distribution agreement (identifying any that contain exclusivity provisions); (ii) any agreement involving provision of services, products or technology with respect to any development activities of CombiMatrix (iii) any dealer, distributor, joint marketing, alliance, joint venture, cooperation, development or other agreement currently in force under which CombiMatrix or its Subsidiaries has continuing obligations to develop or market any product, technology or service, or any agreement pursuant to which CombiMatrix or its Subsidiaries has continuing obligations to develop any Intellectual Property that will not be owned, in whole or in part, by CombiMatrix or such CombiMatrix Subsidiary; or (iv) any Contract

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currently in force to license any third party to manufacture or produce any CombiMatrix product, service or technology or any Contract currently in force to sell, distribute or commercialize any CombiMatrix products, technology or services except agreements with distributors or sales representatives in the Ordinary Course of Business;

- (j) each CombiMatrix Contract with any Person, including any financial advisor, broker, finder, investment banker or other Person, providing advisory services to CombiMatrix in connection with the Contemplated Transactions;
- (k) each CombiMatrix IP Right Agreement; or
- (1) any other agreement, contract or commitment (i) which involves payment or receipt by CombiMatrix or its Subsidiaries under any such agreement, contract or commitment of \$25,000 or more in the aggregate or obligations after the date of this Agreement in excess of \$25,000 in the aggregate, or (ii) that is material to the business or operations of CombiMatrix and its Subsidiaries.

CombiMatrix has delivered to Invitae accurate and complete (except for applicable redactions thereto) copies of all CombiMatrix Material Contracts, including all amendments thereto. There are no CombiMatrix Material Contracts that are not in written form. Neither CombiMatrix nor any of its Subsidiaries has, nor to CombiMatrix s Knowledge as of the date of this Agreement has any other party to a CombiMatrix Material Contract, breached, violated or defaulted under, or received notice that it has breached, violated or defaulted under, any of the terms or conditions of any CombiMatrix Material Contract in such manner as would permit any other party to cancel or terminate any such CombiMatrix Material Contract, or would permit any other party to seek damages. As to CombiMatrix and its Subsidiaries, each CombiMatrix Material Contract is valid, binding, enforceable and in full force and effect, subject to: (i) laws of general application relating to bankruptcy, insolvency and the relief of debtors; and (ii) rules of law governing specific performance, injunctive relief and other equitable remedies. The consummation of the Contemplated Transactions shall not result in any material payment or payments becoming due from CombiMatrix, any CombiMatrix Subsidiary, the Surviving Corporation or Invitae to any Person under any CombiMatrix Contract or give any Person the right to terminate or alter the provisions of any CombiMatrix Contract. No Person is renegotiating, or has a right pursuant to the terms of any CombiMatrix Material Contract to change, any material amount paid or payable to CombiMatrix under any CombiMatrix Material Contract or any other material term or provision of any CombiMatrix Material Contract.

**2.10 No Undisclosed Liabilities**. As of the date of this Agreement, neither CombiMatrix nor any CombiMatrix Subsidiary has any liability, indebtedness, obligation, expense, claim, deficiency, guaranty or endorsement of any kind, whether accrued, absolute, contingent, matured, unmatured or other (whether or not required to be reflected in the financial statements in accordance with GAAP) (each a *Liability*), except for: (a) Liabilities identified as such in the liabilities column of the CombiMatrix Unaudited Interim Balance Sheet; (b) normal and recurring current Liabilities that have been incurred by CombiMatrix or its Subsidiaries since the date of the CombiMatrix Unaudited Interim Balance Sheet in the Ordinary Course of Business and which are not in excess of \$25,000 in the aggregate; (c) Liabilities for performance in the Ordinary Course of Business of obligations of CombiMatrix or any CombiMatrix Subsidiary under CombiMatrix Contracts, including the reasonably expected performance of such CombiMatrix Contracts in accordance with their terms (which would not include, for example, any instances of breach or indemnification); (d) Liabilities incurred in connection with the Contemplated Transactions; and (e) Liabilities listed in Section 2.10 of the CombiMatrix Disclosure Schedule.

2.11 Compliance; Permits; Restrictions; Regulatory Matters.

(a) CombiMatrix and each CombiMatrix Subsidiary is, and since January 1, 2014 has been, in compliance in all material respects with all applicable Legal Requirements. No investigation, claim, suit, proceeding, audit or other action by any Governmental Body or authority is pending or, to the Knowledge of CombiMatrix, threatened against CombiMatrix or any CombiMatrix Subsidiary, nor has any Governmental Body

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or authority indicated in writing to CombiMatrix an intention to conduct the same. There is no agreement, judgment, injunction, order or decree binding upon CombiMatrix or any CombiMatrix Subsidiary which (i) has or would reasonably be expected to have the effect of prohibiting or materially impairing any business practice of CombiMatrix or any CombiMatrix Subsidiary, any acquisition of material property by CombiMatrix or any CombiMatrix Subsidiary or the conduct of business by CombiMatrix or any CombiMatrix Subsidiary as currently conducted or currently proposed to be conducted, (ii) may have an adverse effect on CombiMatrix subsidiary as ability to comply with or perform any covenant or obligation under this Agreement, or (iii) may have the effect of preventing, delaying, making illegal or otherwise interfering with the Merger or any of the other Contemplated Transactions.

- (b) There are no proceedings pending or, to the Knowledge of CombiMatrix, threatened with respect to an alleged violation by CombiMatrix or any of its Subsidiaries of CLIA, state CLIA regulations, or any other similar Legal Requirements promulgated by a Governmental Body. Each of CombiMatrix and any CombiMatrix Subsidiary has met all applicable standards of accreditation to be, and is, accredited by the College of American Pathologists ( *CAP* ) Laboratory Accreditation Program.
- (c) CombiMatrix and each of its Subsidiaries holds all required Governmental Authorizations issuable by any Governmental Body necessary for the conduct of the business of CombiMatrix or such Subsidiary as currently conducted or currently proposed to be conducted (the *CombiMatrix Regulatory Permits*), and, to the Knowledge of CombiMatrix, no such CombiMatrix Regulatory Permit has been (i) revoked, withdrawn, suspended, cancelled or terminated or (ii) modified in any adverse manner, other than immaterial adverse modifications. Section 2.11(c) of the CombiMatrix Disclosure Schedule identifies each CombiMatrix Regulatory Permit. CombiMatrix and each CombiMatrix Subsidiary is in compliance in all material respects with the CombiMatrix Regulatory Permits and has not received any written notice or other written communication from any Governmental Body regarding (A) any material violation of or failure to comply materially with any term or requirement of any CombiMatrix Regulatory Permit or (B) any revocation, withdrawal, suspension, cancellation, termination or material modification of any CombiMatrix Regulatory Permit. CombiMatrix has made available to Invitae all information requested by Invitae in CombiMatrix s or its Subsidiaries possession or control relating to the following (to the extent there are any): (x) adverse event reports; clinical study reports and material study data; inspection reports, notices of adverse findings, warning letters, Filings and letters and other written correspondence to and from any Governmental Body; and meeting minutes with any Governmental Body; and (y) similar reports, material study data, notices, letters, Filings, correspondence and meeting minutes with any other Governmental Body. The rights and benefits of each CombiMatrix Regulatory Permit will be available to the Surviving Corporation immediately after the Effective Time on terms substantially identical to those enjoyed by CombiMatrix and its Subsidiaries as of the date of this Agreement and immediately prior to the Effective Time.
- (d) All clinical, pre-clinical and other studies and tests conducted by or on behalf of, or sponsored by, CombiMatrix or its Subsidiaries or in which CombiMatrix or its Subsidiaries or their respective products, technology or services have participated were conducted in all material respects in accordance with standard medical and scientific research procedures and in compliance with all Legal Requirements.
- (e) None of CombiMatrix or any CombiMatrix Subsidiary, or, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, any of their respective officers, directors or managing employees (as such terms are defined in 42 C.F.R. § 1001.1001) nor, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, any other service provider or agent (as such term is defined in 42 C.F.R. § 1001.1001) of CombiMatrix or any CombiMatrix Subsidiary has been disqualified, debarred or deregistered by any Governmental Authority, and no such disqualification, debarment, deregistration or exclusionary claims, actions, proceedings or investigations are pending or, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, threatened.

(f) Neither CombiMatrix nor any CombiMatrix Subsidiary nor, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, any of their respective directors, officers, employees or Collaboration Partners (solely with respect to such Collaboration Partners activities with CombiMatrix or any CombiMatrix Subsidiary) has (i) made an untrue statement of a material fact or fraudulent statement to the FDA or any other Health

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Authority, (ii) failed to disclose a material fact required to be disclosed to the FDA or any other Health Authority, or (iii) committed any other act, made any statement or failed to make any statement, that (in any such case) establishes a reasonable basis for the FDA to invoke the policy respecting Fraud, Untrue Statements of Material Facts, Bribery, and Illegal Gratuities, set forth in 56 Fed. Reg. 46191 (September 10, 1991) (the *FDA Fraud Policy*) or for any other Health Authority to invoke a similar policy that may be applicable to CombiMatrix or any CombiMatrix Subsidiary in another jurisdiction. Neither CombiMatrix nor any CombiMatrix Subsidiary nor, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, any of their respective directors, officers, employees or Collaboration Partners (solely with respect to such Collaboration Partners activities with CombiMatrix or any CombiMatrix Subsidiary) is the subject of any pending or, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, threatened investigation by the FDA under the FDA Fraud Policy, or the subject of any similar investigation by any other Health Authority.

- (g) CombiMatrix and each CombiMatrix Subsidiary, including each of its respective systems and operations and with respect to all CombiMatrix Material Contracts, and, to the Knowledge of CombiMatrix and each CombiMatrix Subsidiary, each Collaboration Partner (solely with respect to such Collaboration Partners activities with CombiMatrix or any CombiMatrix Subsidiary), is not now, and during the last three (3) years has not been, in material default or violation of any Health Law or order to the extent applicable to CombiMatrix or any CombiMatrix Subsidiary or by which any property or asset of CombiMatrix or any CombiMatrix Subsidiary is bound. Neither CombiMatrix nor any CombiMatrix Subsidiary nor, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, any of their respective directors, officers, employees or Collaboration Partners (solely with respect to such Collaboration Partners activities with CombiMatrix or any CombiMatrix Subsidiary) (i) has received any written notice or other written communication from any Health Authority alleging any violation of any Health Law, including any failure to maintain systems and programs adequate to ensure compliance with any such Health Laws, or (ii) is subject to any enforcement, regulatory or administrative proceedings against or affecting CombiMatrix or any CombiMatrix Subsidiary relating to or arising under any Health Law and, to the Knowledge of CombiMatrix and each CombiMatrix Subsidiary, no such enforcement, regulatory or administrative proceeding has been threatened. Except as set forth in Section 2.11(g) of the CombiMatrix Disclosure Schedule, during the three (3) years prior to the date of this Agreement, neither CombiMatrix nor any CombiMatrix Subsidiary has received any FDA Form 483 or other Governmental Authority notice of inspectional observations, warning letters, untitled letters or, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, requests or requirements to make changes to the operations of CombiMatrix or any CombiMatrix Subsidiary (including any diagnostic testing services, sample collection kits, or other products or services of CombiMatrix or any CombiMatrix Subsidiary), or similar correspondence or written notice from the FDA or other Governmental Authority and alleging or asserting noncompliance with any applicable Legal Requirements, permits or such requests or requirements of a Governmental Authority.
- (h) CombiMatrix and each CombiMatrix Subsidiary have filed with the applicable Health Authority all required Filings, including adverse event reports. All such Filings were in material compliance with applicable Legal Requirements when filed, and no deficiencies have been asserted in writing by any applicable Health Authority with respect to any such Filings.
- (i) Neither CombiMatrix nor any CombiMatrix Subsidiary, nor any of their respective officers, directors, employees or agents, has engaged in any activities which are cause for criminal or civil penalties against, or mandatory or permissive exclusion of, CombiMatrix or any CombiMatrix Subsidiary from Medicare, Medicaid, or any other federal health care program under 42 U.S.C. §§ 1320a-7, 1320a-7a, 1320a-7b, or 1395nn, the Federal Employees Health Benefits program statute, or the regulations promulgated pursuant to such statutes or related state or local statutes or regulations.

(j) The diagnostic tests of CombiMatrix and each CombiMatrix Subsidiary are being lawfully marketed in all material respects under the FDA s current policies and grant of enforcement discretion applied to traditional laboratory developed tests ( *LDTs* ). Without limiting the generality of the foregoing, all diagnostic tests that are considered by CombiMatrix or any CombiMatrix Subsidiary to be LDTs are and, during such periods when such LDTs have been sold by CombiMatrix and subject to CLIA, always have been: (i) designed, manufactured and used within a single laboratory that is approved in accordance with CLIA; (ii) validated to

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meet performance characteristics relating to analytical validity for the use of each test system in the laboratory sown environment; and (iii) utilized under the order of a licensed healthcare provider. Any diagnostic testing that CombiMatrix or any CombiMatrix Subsidiary conducts outside of the United States, and any specimen collection kits that CombiMatrix or any CombiMatrix Subsidiary distributes outside of the United States, complies in all material respects with the Legal Requirements of any country where the diagnostic testing is performed or where the specimen collection kits are distributed.

- (k) All submissions made by CombiMatrix or any CombiMatrix Subsidiary or by any third party on behalf of CombiMatrix or any CombiMatrix Subsidiary in connection with any of their respective diagnostic tests or other products to any Governmental Authority were, and as of the Closing Date will be, accurate and complete in all material respects.
- (I) There are no investigations, suits, claims, actions or proceedings against or affecting CombiMatrix or any CombiMatrix Subsidiary pending or, to the knowledge of CombiMatrix or any CombiMatrix Subsidiary, threatened, relating to or arising under (i) the Federal Food, Drug and Cosmetic Act or the regulations of the FDA promulgated thereunder or similar Legal Requirements, or (ii) Information and Privacy Security Laws, including alleging a violation of any Person s rights under any Information Privacy and Security Laws or any of the former or current published privacy policies of CombiMatrix or any CombiMatrix Subsidiary. Neither CombiMatrix nor any CombiMatrix Subsidiary has received any notices from the U.S. Department of Health and Human Services Office for Civil Rights, Department of Justice, Federal Trade Commission, or the Attorney General of any state, or any equivalent foreign Governmental Authority, relating to any such violations.
- (m) There are no pending, concluded in the last three (3) years or, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, threatened investigations, suits, claims, actions or proceedings, including any voluntary disclosures or self-disclosures, relating to the participation of CombiMatrix or any CombiMatrix Subsidiary in any payment program, including Medicare, Medicaid, Tricare, the Federal Employees Health Benefit Program, and private third party payor programs ( *Payment Programs* ). Neither CombiMatrix nor any CombiMatrix Subsidiary is subject to, nor has CombiMatrix or any CombiMatrix Subsidiary been subjected to in the last three (3) years, any pre-payment utilization review or other utilization review by any Payment Program. Except as set forth in Section 2.11(m) of the CombiMatrix Disclosure Schedule, no Payment Program is currently requesting or has requested in the last three (3) years or, to the Knowledge of CombiMatrix or any CombiMatrix Subsidiary, is threatening or has in the last three (3) years threatened any recoupment, refund, or set-off from CombiMatrix or any CombiMatrix Subsidiary in excess of \$10,000. No Payment Program has imposed in the last three (3) years a fine, penalty or other sanction on CombiMatrix or any CombiMatrix Subsidiary. Neither CombiMatrix nor any CombiMatrix Subsidiary has been excluded in the last three (3) years from participation in any Payment Program. All billing practices of CombiMatrix and each CombiMatrix Subsidiary with respect to all Payment Programs have been in compliance with all Legal Requirements applicable to CombiMatrix and each CombiMatrix Subsidiary in all material respects.
- (n) CombiMatrix and each CombiMatrix Subsidiary, and, to the Knowledge of CombiMatrix and each CombiMatrix Subsidiary, their respective Representatives are in compliance (and since January 1, 2014 have complied) in all material respects with: (i) the provisions of the U.S. Foreign Corrupt Practices Act of 1977, as amended (15 U.S.C. §§ 78dd-1, et seq.) ( FCPA ); and (ii) the provisions of all applicable anti-bribery, anti-corruption and anti-money laundering Legal Requirements of each jurisdiction in which CombiMatrix and any CombiMatrix Subsidiary operates or has operated and in which any agent thereof is conducting or has conducted business involving CombiMatrix or any CombiMatrix Subsidiary. Since January 1, 2014, CombiMatrix and each CombiMatrix Subsidiary, and, to the Knowledge of CombiMatrix and each CombiMatrix Subsidiary, their respective Representatives have not paid, offered or promised to pay, or authorized or ratified the payment, directly or indirectly, of any monies or anything of value to any national, provincial, municipal or other Government Official or any political party or candidate for

political office for the purpose of corruptly influencing any act or decision of such official or of the government to obtain or retain business, or direct business to any person or to secure any other improper benefit or advantage, in each case in violation in any material respect of the FCPA and any applicable Legal Requirements described in clause (ii) above. CombiMatrix and each CombiMatrix Subsidiary (x) have instituted policies and procedures designed to ensure

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compliance with the FCPA and other applicable anti-bribery and anti-corruption Legal Requirements in each jurisdiction in which CombiMatrix and any CombiMatrix Subsidiary operates and (y) have maintained and will maintain such policies and procedures in force.

- (o) CombiMatrix and each CombiMatrix Subsidiary and their respective Affiliates are, and since January 1, 2014 have been, in material compliance with all applicable U.S. statutory and regulatory requirements concerning the exportation, re-exportation and importation of products, technology, and services, and other international transactions, including: (i) Legal Requirements, regulations and policies enforced by U.S. Customs and Border Protection; (ii) the Arms Export Control Act and the International Traffic in Arms Regulations (22 C.F.R. Part 120 et seq.) administered by the U.S. Department of State s Directorate of Defense Trade Controls; (iii) the Export Administration Regulations (15 C.F.R. Part 730 et seq.) administered by the U.S. Department of Commerce s Bureau of Industry and Security ( BIS ); (iv) U.S. anti-boycott regulations administered by BIS and the International Revenue Service; (v) all Legal requirements concerning export and import reporting administered by the U.S. Census Bureau; and (vi) the economic sanctions Legal Requirements, regulations and associated executive orders administered by the U.S. Departments of Treasury s Office of Foreign Assets Control ( *OFAC* ) (collectively, the *Trade Control Laws* ). Since January 1, 2014, unless authorized by the relevant agency of the U.S. Government, CombiMatrix and each CombiMatrix Subsidiary and their respective Affiliates have not conducted any transactions directly or indirectly related to: (x) Cuba, Iran, North Korea, Sudan or Syria; (y) individuals or entities identified on restricted party lists maintained by the U.S. Government, including the List of Specially Designated Nationals and Blocked Persons ( SDN List ), Foreign Sanctions Evader List ( FSE List ) and Sectoral Sanctions Identification List ( SSI List ) administered by OFAC and the Denied Parties List, Unverified List and Entity List administered by BIS (collectively, Restricted Parties ); or (z) entities owned or controlled by anyone on the SDN List, the SSI List or the FSE List. Neither CombiMatrix nor any CombiMatrix Subsidiary is a Restricted Party or is owned or controlled by a Restricted Party. There is no pending or, to the Knowledge of CombiMatrix and each CombiMatrix Subsidiary, threatened action against CombiMatrix or any CombiMatrix Subsidiary, nor any pending voluntary disclosure by CombiMatrix or any CombiMatrix Subsidiary or their respective Affiliates to any government authority in connection with an alleged material violation of any Trade Control Laws. Since January 1, 2014, neither CombiMatrix nor any of the CombiMatrix Subsidiaries or their respective Affiliates have been cited or fined for failure to comply with, or submitted any voluntary self-disclosures regarding material non-compliance with, Trade Control Laws.
- (p) The receipt, collection, monitoring, maintenance, creation, transmission, use, analysis, disclosure, storage, disposal and security of Personal Information by the Acquired Corporations have, in all material respects, complied, and comply in all material respects, with (i) any applicable CombiMatrix Contract, (ii) applicable Information Privacy and Security Laws, (iii) to the extent applicable, PCI DSS, and (iv) all Consents and protocols of the Acquired Corporation that apply to the receipt, use, processing or disclosure of Personal Information (collectively, *PII Consents*). Each Acquired Corporation has, in all material respects, all necessary PII Consents to receive, process and disclose all Personal Information in that Acquired Corporation s possession or under its control in connection with the operation of the business operations of the Acquired Corporations.
- (q) Each Acquired Corporation has entered into a business associate agreement (as described by 45 C.F.R. § 164.504(e) or § 164.314(a)) with each third party in each instance where: (i) that Acquired Corporation acts as a business associate (as defined in 45 C.F.R. § 160.103) to that third party; or (ii) that third party receives, creates, transmits or maintains protected health information (as defined in 45 C.F.R. § 160.103) from or on behalf of that Acquired Corporation, in each case as required by, and in conformity in all material respects with, applicable Information Privacy and Security Laws and the applicable CombiMatrix Contracts to which the member is a party.
- (r) Each Acquired Corporation has adopted policies and procedures that apply to that Acquired Corporation with respect to privacy, data protection, security and the collection, transfer and use of Personal Information gathered or

accessed in the course of the operations of the Acquired Corporations, and those policies and procedures are commercially reasonable and comply with applicable Information Privacy and Security Law.

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Each Acquired Corporation has taken reasonable actions and measures to protect the confidentiality, integrity and security of its Personal Information and IT Assets against any unauthorized control, use, access, interruption, modification or corruption and those actions and measures are in conformance with Information Privacy and Security Laws.

- (s) There has been no breach of the security of any IT Assets, or unauthorized access, use or disclosure of any Personal Information, owned, used, stored, received, or controlled by or on behalf of any Acquired Corporation, including any unauthorized access, use or disclosure of Personal Information that would constitute a breach for which notification to individuals and/or Governmental Bodies is required under any applicable Information Privacy and Security Laws.
- (t) Each Acquired Corporation has performed all security risk assessments as applicable to that Acquired Corporation and required by: (i) the standards set forth at 45 C.F.R. § 164.308(a); (ii) all other Information Privacy and Security Laws; (iii) any applicable CombiMatrix Contracts; or (iv) the PCI DSS (collectively, the *Security Risk Assessments*). The Acquired Corporations have reasonably addressed all threats and deficiencies identified in every Security Risk Assessment.

### 2.12 Tax Matters.

- (a) CombiMatrix and each CombiMatrix Subsidiary have timely filed all federal income Tax Returns and other material Tax Returns that they were required to file under applicable Legal Requirements. All such Tax Returns were correct and complete in all material respects and have been prepared in material compliance with all applicable Legal Requirements. Neither CombiMatrix nor any CombiMatrix Subsidiary is currently the beneficiary of any extension of time within which to file any Tax Return. No claim has ever been made by an authority in a jurisdiction where CombiMatrix or any CombiMatrix Subsidiary does not file Tax Returns that it is subject to taxation by that jurisdiction.
- (b) All material Taxes due and owing by CombiMatrix or any CombiMatrix Subsidiary on or before the date of this Agreement (whether or not shown on any Tax Return) have been paid. The unpaid Taxes of CombiMatrix and any CombiMatrix Subsidiary have been reserved for on the CombiMatrix Unaudited Interim Balance Sheet in accordance with GAAP. Since the date of the CombiMatrix Unaudited Interim Balance Sheet, neither CombiMatrix nor any CombiMatrix Subsidiary has incurred any Liability for Taxes outside the Ordinary Course of Business or otherwise inconsistent with past custom and practice.
- (c) CombiMatrix and each CombiMatrix Subsidiary have withheld and paid all Taxes required to have been withheld and paid in connection with any amounts paid or owing to any employee, independent contractor, creditor, stockholder or other third party.
- (d) There are no Encumbrances for Taxes (other than Taxes not yet due and payable or Taxes that are being contested in good faith and for which adequate reserves have been made on CombiMatrix s Unaudited Interim Balance Sheet) upon any of the assets of CombiMatrix or any CombiMatrix Subsidiary.
- (e) No material deficiencies for Taxes with respect to CombiMatrix or any CombiMatrix Subsidiary have been claimed, proposed or assessed by any Governmental Body in writing. There are no pending (or, based on written notice, threatened) audits, assessments or other actions for or relating to any liability in respect of Taxes of CombiMatrix or any CombiMatrix Subsidiary. No issues relating to Taxes of CombiMatrix or any CombiMatrix Subsidiary were raised by the relevant Tax authority to CombiMatrix or any CombiMatrix Subsidiary in any completed audit or examination that would reasonably be expected to result in a material amount of Taxes in a later

taxable period. CombiMatrix has delivered or made available to Invitae

complete and accurate copies of all federal income Tax and all other material Tax Returns of CombiMatrix and each CombiMatrix Subsidiary (and predecessors of each) for all taxable years remaining open under the applicable statute of limitations, and complete and accurate copies of all examination reports and statements of deficiencies assessed against or agreed to by CombiMatrix and each CombiMatrix Subsidiary (and predecessors of each), with respect to federal income Tax and all other material Taxes. Neither CombiMatrix nor any CombiMatrix Subsidiary (or any of their predecessors) has waived any statute of limitations in respect of Taxes

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or agreed to any extension of time with respect to a Tax assessment or deficiency, nor has any request been made in writing for any such extension or waiver.

- (f) All material elections with respect to Taxes affecting CombiMatrix or any CombiMatrix Subsidiary as of the date of this Agreement are set forth in Section 2.12(f) of the CombiMatrix Disclosure Schedule. Neither CombiMatrix nor any CombiMatrix Subsidiary (i) has agreed, or is required, to make any adjustment under Section 481(a) of the Code by reason of a change in accounting method or otherwise; (ii) has made an election, or is required, to treat any of its assets as owned by another Person for Tax purposes or as a tax-exempt bond financed property or tax-exempt use property within the meaning of Section 168 of the Code; (iii) has acquired or owns any assets that directly or indirectly secure any debt the interest on which is tax exempt under Section 103(a) of the Code; (iv) has made or will make a consent dividend election under Section 565 of the Code; (v) has elected at any time to be treated as an S corporation within the meaning of Sections 1361 or 1362 of the Code; or (vi) has made any of the foregoing elections or is required to apply any of the foregoing rules under any comparable provision of state, local or foreign law.
- (g) Neither CombiMatrix nor any CombiMatrix Subsidiary has been a United States real property holding corporation within the meaning of Section 897(c)(2) of the Code during the applicable period specified in Section 897(c)(1)(A)(ii) of the Code.
- (h) Neither CombiMatrix nor any CombiMatrix Subsidiary is a party to any Tax allocation, Tax sharing or similar agreement (including indemnity arrangements), other than commercial contracts entered into in the Ordinary Course of Business with vendors, customers and landlords.
- (i) Except as set forth in Section 2.12(i) of the CombiMatrix Disclosure Schedule, neither CombiMatrix nor any CombiMatrix Subsidiary has ever been a member of an affiliated group filing a consolidated, combined or unitary Tax Return (other than a group the common parent of which is CombiMatrix) for federal, state, local or foreign Tax purposes. Neither CombiMatrix nor any CombiMatrix Subsidiary has any Liability for the Taxes of any Person (other than CombiMatrix and any CombiMatrix Subsidiary) under Treasury Regulations Section 1.1502-6 (or any similar provision of state, local, or foreign law), as a transferee or successor, by Contract, or otherwise.
- (j) Neither CombiMatrix nor any CombiMatrix Subsidiary has distributed stock of another Person, or has had its stock distributed by another Person, in a transaction that was purported or intended to be governed in whole or in part by Section 355 of the Code or Section 361 of the Code.
- (k) Neither CombiMatrix nor any CombiMatrix Subsidiary will be required to include any item of income in, or exclude any item of deduction from, taxable income for any period (or any portion thereof) ending after the Closing Date as a result of any (i) installment sale or other open transaction disposition made on or prior to the Closing Date, or (ii) agreement with any Tax authority (including any closing agreement described in Section 7121 of the Code or any similar provision of state, local or foreign law) made or entered into on or prior to the Closing Date.
- (I) Neither CombiMatrix nor any CombiMatrix Subsidiary is a partner for Tax purposes with respect to any joint venture, partnership, or, to the Knowledge of CombiMatrix, other arrangement or contract which is treated as a partnership for Tax purposes.
- (m) Neither CombiMatrix nor any CombiMatrix Subsidiary has entered into any transaction identified as a listed transaction for purposes of Treasury Regulations Sections 1.6011-4(b)(2) or 301.6111-2(b)(2).
- (n) Neither CombiMatrix nor any CombiMatrix Subsidiary has taken any action, or has any knowledge of any fact or circumstance, that could reasonably be expected to prevent the Merger, together with the Warrant Exchange Offer,

from qualifying as a reorganization within the meaning of Section 368(a) of the Code.

# 2.13 Employee and Labor Matters; Benefit Plans.

(a) The employment of each of the CombiMatrix and CombiMatrix Subsidiary employees is terminable by CombiMatrix or the applicable CombiMatrix Subsidiary at will. CombiMatrix has made available to Invitae

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accurate and complete copies of all employee manuals and handbooks, disclosure materials, policy statements and other materials relating to the employment of the CombiMatrix Associates to the extent currently effective and material.

- (b) To the Knowledge of CombiMatrix, no officer or Key Employee of CombiMatrix or any CombiMatrix Subsidiary intends to terminate his or her employment with CombiMatrix or the applicable CombiMatrix Subsidiary, nor has any such officer or Key Employee threatened or expressed in writing any intention to do so.
- (c) Neither CombiMatrix nor any CombiMatrix Subsidiary is a party to or bound by, nor has a duty to bargain under, any collective bargaining agreement or other Contract with a labor organization representing any of its employees, and there are no labor organizations representing, purporting to represent or, to the Knowledge of CombiMatrix, seeking to represent any employees of CombiMatrix or any CombiMatrix Subsidiary. There has never been, nor has there been any threat of, any strike, slowdown, work stoppage, lockout, job action, union organizing activity, question concerning representation or any similar activity or dispute, affecting CombiMatrix or any CombiMatrix Subsidiary. No event has occurred, and no condition or circumstance exists, that might directly or indirectly be likely to give rise to or provide a basis for the commencement of any such strike, slowdown, work stoppage, lockout, job action, union organizing activity, question concerning representation or any similar activity or dispute. Neither CombiMatrix nor any CombiMatrix Subsidiary is or has been engaged in any unfair labor practice within the meaning of the National Labor Relations Act. There is no Legal Proceeding, claim, labor dispute or grievance pending or, to the Knowledge of CombiMatrix, threatened or reasonably anticipated relating to any employment or independent contractor contract, privacy right, labor dispute, wage and hour dispute, leave of absence, plant closing notification, workers compensation policy, long-term disability policy, harassment, discrimination, retaliation, immigration violation, employment statute or regulation, or workplace safety matter involving any CombiMatrix Associate, including charges of unfair labor practices or discrimination complaints.
- (d) Section 2.13(d) of the CombiMatrix Disclosure Schedule lists all written employee benefit plans (as defined in Section 3(3) of ERISA) and all bonus, equity-based, incentive, deferred compensation, retirement or supplemental retirement, profit sharing, severance, golden parachute, vacation, cafeteria, dependent care, medical care, employee assistance program, education or tuition assistance programs and other similar fringe or employee benefit plans, programs or arrangements, including any employment or executive compensation or severance agreements which are currently in effect relating to any present or former employee or director of CombiMatrix or any CombiMatrix Subsidiary (or any trade or business (whether or not incorporated) which is a CombiMatrix Affiliate) or which is maintained by, administered or contributed to by, or required to be contributed to by, CombiMatrix, any CombiMatrix Subsidiary or any CombiMatrix Affiliate, or under which CombiMatrix or any CombiMatrix Subsidiary or any CombiMatrix Affiliate has any current or may incur liability after the date of this Agreement (each, an *CombiMatrix Employee Plan*). To the Knowledge of CombiMatrix, there are no unwritten CombiMatrix Employee Plans in effect.
- (e) With respect to CombiMatrix Options granted pursuant to the 2006 Plan, (i) each CombiMatrix Option intended to qualify as an incentive stock option under Section 422 of the Code so qualifies, (ii) each grant of a CombiMatrix Option was duly authorized no later than the date on which the grant of such CombiMatrix Option was by its terms to be effective (the *Grant Date*) by all necessary corporate action, including, as applicable, approval by the board of directors of CombiMatrix (or a duly constituted and authorized committee thereof) and any required stockholder approval by the necessary number of votes or written consents, and the award agreement governing such grant (if any) was duly executed and delivered by each party thereto, (iii) each CombiMatrix Option grant was made in accordance with the terms of the 2006 Plan, the Exchange Act and all other applicable laws and regulatory rules or requirements, including the rules of NASDAQ and any other exchange on which CombiMatrix securities are traded, (iv) the per share exercise price of each CombiMatrix Option was not less than the fair market value of a share of CombiMatrix Common Stock on the applicable Grant Date, and (v) each such CombiMatrix Option grant was properly accounted

for in accordance with GAAP in the financial statements (including the related notes) of CombiMatrix and disclosed in CombiMatrix filings with the SEC in accordance with the Exchange Act and all other applicable Legal Requirements. CombiMatrix has not

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knowingly granted, and there is no and has been no policy or practice of CombiMatrix of granting, CombiMatrix Options prior to, or otherwise coordinate the grant of CombiMatrix Options with, the release or other public announcement of material information regarding CombiMatrix or its results of operations or prospects.

- (f) No CombiMatrix Options, RSUs, stock appreciation rights or other equity-based awards issued or granted by CombiMatrix are subject to the requirements of Code Section 409A. Each nonqualified deferred compensation plan (as such term is defined under Section 409A(d)(1) of the Code and the guidance thereunder) maintained by or under which CombiMatrix or any of its former Subsidiaries makes, is obligated to make or promises to make, payments (each, a *CombiMatrix 409A Plan*) complies in all material respects, in both form and operation, with the requirements of Code Section 409A and the guidance thereunder. No payment to be made under any CombiMatrix 409A Plan is, or to the Knowledge of CombiMatrix will be, subject to the penalties of Code Section 409A(a)(1).
- (g) CombiMatrix is in compliance with all of its bonus, commission and other compensation plans and has paid any and all amounts (or pro rata portion thereof) required to be paid under such plans through the calendar quarter preceding the Effective Time, and is properly accruing any and all applicable bonuses and commissions, and is not liable for any payments, taxes or penalties for failure to comply with any of the terms or conditions of such plans or the laws governing such plans.
- (h) Except as set forth in Section 2.13(h) of the CombiMatrix Disclosure Schedule, each CombiMatrix Employee Plan can be amended, terminated or otherwise discontinued in accordance with its terms, without material Liability to CombiMatrix, the Surviving Corporation, Invitae or any of their Affiliates (other than ordinary administrative expenses typically incurred in a termination event). Except as set forth in Section 2.13(h) of the CombiMatrix Disclosure Schedule, neither CombiMatrix nor any CombiMatrix Affiliate has announced its intention to modify or amend any CombiMatrix Employee Plan or adopt any arrangement or program which, once established, would come within the definition of a CombiMatrix Employee Plan, and to the Knowledge of CombiMatrix, each asset held under such CombiMatrix Employee Plan may be liquidated or terminated without the imposition of any material redemption fee, surrender charge or comparable Liability.
- (i) Each CombiMatrix Employee Plan that is intended to be qualified under Section 401(a) of the Code has received a favorable determination letter or may rely on a favorable opinion or advisory letter from the Internal Revenue Service, with respect to such qualified status from the Internal Revenue Service. To the Knowledge of CombiMatrix, nothing has occurred that would reasonably be expected to adversely affect the qualified status of any such CombiMatrix Employee Plan or the exempt status of any related trust. Each CombiMatrix Employee Plan has been maintained in compliance, in all material respects, with its terms and, both as to form and operation, with all applicable Legal Requirements, including the Code and ERISA. CombiMatrix and each CombiMatrix Affiliate has performed all obligations required to be performed by it under, is not in default under or in violation of, and has no knowledge of any default or violation by any other party to, any of the CombiMatrix Employee Plans. Neither CombiMatrix nor any CombiMatrix Affiliate is subject to any Liability or penalty under Sections 4976 through 4980 of the Code or Title I of ERISA with respect to any of the CombiMatrix Employee Plans. All contributions required to be made by CombiMatrix or any CombiMatrix Affiliate to any CombiMatrix Employee Plan have been made on or before their due dates (and no further contributions will be due or will have accrued thereunder as of the Closing Date, other than contributions accrued in the Ordinary Course of Business consistent with past practice). No suit, administrative proceeding, action or other litigation has been initiated against, or to the Knowledge of CombiMatrix, is threatened, against or with respect to any CombiMatrix Employee Plan, including any audit or inquiry by the IRS, United States Department of Labor or other Governmental Body.
- (j) Neither CombiMatrix nor any CombiMatrix Subsidiary has engaged in any transaction in violation of Sections 404 or 406 of ERISA or any prohibited transaction, as defined in Section 4975(c)(1) of the Code, for which no exemption

exists under Section 408 of ERISA or Section 4975(c)(2) or (d) of the Code, or has otherwise violated the provisions of Part 4 of Title I, Subtitle B of ERISA. Neither CombiMatrix nor any CombiMatrix Subsidiary has knowingly participated in a violation of Part 4 of Title I, Subtitle B of ERISA by any plan fiduciary of any CombiMatrix Employee Plan subject to ERISA and neither CombiMatrix nor any CombiMatrix Subsidiary has been assessed any civil penalty under Section 502(l) of ERISA.

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- (k) No CombiMatrix Employee Plan is subject to Title IV or Section 302 of ERISA or Section 412 of the Code, and neither CombiMatrix nor any CombiMatrix Subsidiary or CombiMatrix Affiliate has ever maintained, contributed to or partially or completely withdrawn from, or incurred any obligation or liability with respect to, any such plan. No CombiMatrix Employee Plan is a Multiemployer Plan, and neither CombiMatrix nor any CombiMatrix Subsidiary or CombiMatrix Affiliate has ever contributed to or had an obligation to contribute, or incurred any liability in respect of a contribution, to any Multiemployer Plan. No CombiMatrix Employee Plan is a Multiple Employer Plan.
- (l) Except as set forth in Section 2.13(l) of the CombiMatrix Disclosure Schedule, no CombiMatrix Employee Plan provides for medical or death benefits beyond termination of service or retirement, other than (i) pursuant to COBRA or an analogous state law requirement or (ii) death or retirement benefits under a CombiMatrix Employee Plan qualified under Section 401(a) of the Code. Neither CombiMatrix nor any CombiMatrix Affiliate sponsors or maintains any self-funded employee benefit plan. No CombiMatrix Employee Plan is subject to any Legal Requirement of any foreign jurisdiction outside of the United States.
- (m) Except as set forth in <u>Schedule 2.13(m)</u>, neither CombiMatrix nor any CombiMatrix Subsidiary is a party to any Contract that has resulted or would reasonably be expected to result, separately or in the aggregate, in the payment of (i) any excess parachute payment within the meaning of Section 280G of the Code and (ii) any amount the deduction for which would be disallowed under Section 162(m) of the Code.
- (n) To the Knowledge of CombiMatrix, no payment pursuant to any CombiMatrix Employee Plan or other arrangement to any service provider (as such term is defined in Section 409A of the Code and the United States Treasury Regulations and IRS guidance thereunder) to CombiMatrix or any CombiMatrix Subsidiary, including the grant, vesting or exercise of any stock option, would subject any Person to tax pursuant to Section 409A(1) of the Code, whether pursuant to the Contemplated Transactions or otherwise.
- (o) There is no Contract or arrangement to which CombiMatrix or, to the Knowledge of CombiMatrix, any CombiMatrix Affiliate is a party or by which it is bound to compensate any of its current or former employees, independent contractors or directors for additional income or excise taxes paid pursuant to Sections 409A or 4999 of the Code.
- (p) CombiMatrix and each of its Subsidiaries has complied in all material respects with all state and federal laws applicable to employees, including COBRA, FMLA, CFRA, HIPAA, the Women s Health and Cancer Rights Act of 1998, the Newborn s and Mothers Health Protection Act of 1996, and any similar provisions of state law applicable to its employees. To the extent required under HIPAA and the regulations issued thereunder, CombiMatrix and each of its Subsidiaries has, prior to the Closing Date, performed all obligations under the medical privacy rules of HIPAA (45 C.F.R. Parts 160 and 164), the electronic data interchange requirements of HIPAA (45 C.F.R. Parts 160 and 162), and the security requirements of HIPAA (45 C.F.R. Part 142). Neither CombiMatrix nor any of its Subsidiaries has any unsatisfied obligations to any employees or qualified beneficiaries pursuant to COBRA, HIPAA or any state law governing health care coverage or extension. CombiMatrix and each CombiMatrix Affiliate is in compliance in all material respects with all applicable requirements of the Patient Protection and Affordable Care Act of 2010, as amended, and all regulations thereunder (together, the ACA), including all requirements relating to eligibility waiting periods and the offer of or provision of minimum essential coverage that is compliant with Section 36B(c)(2)(C) of the Code and the regulations issued thereunder to full-time employees as defined in Section 4980H(c)(4) of the Code and the regulations issued thereunder. No excise tax or penalty under the ACA, including Sections 4980D and 4980H of the Code, is outstanding, has accrued, or has arisen with respect to any period prior to the Closing, with respect to any CombiMatrix Employee Plan. Neither CombiMatrix nor any CombiMatrix Affiliate has any unsatisfied obligations to any employees or qualified beneficiaries pursuant to the ACA, or any state or local Legal Requirement governing health care coverage or benefits that would reasonably be expected to result in any material liability to

CombiMatrix. CombiMatrix and each CombiMatrix Affiliate have maintained all records necessary to demonstrate its compliance with the ACA.

(q) CombiMatrix and each of its Subsidiaries is in material compliance with all applicable foreign, federal, state and local laws, rules and regulations respecting employment, employment practices, terms and

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conditions of employment, worker classification, tax withholding, equal employment, fair employment practices, meal and rest periods, immigration status, employee safety and health, wages (including overtime wages), compensation and hours of work, and in each case, with respect to employees: (i) has withheld and reported all amounts required by law or by agreement to be withheld and reported with respect to wages, salaries and other payments to employees, (ii) is not liable for any arrears of wages, severance pay or any Taxes or any penalty of any material amount for failure to comply with any of the foregoing, and (iii) is not liable for any payment to any trust or other fund governed by or maintained by or on behalf of any governmental authority, with respect to unemployment compensation benefits, social security or other benefits or obligations for employees (other than routine payments to be made in the normal course of business and consistent with past practice). There are no actions, suits, claims or administrative matters pending or, to the Knowledge of CombiMatrix, threatened against CombiMatrix or any of its Subsidiaries relating to any employee, employment agreement or CombiMatrix Employee Plan. There are no pending or, to the Knowledge of CombiMatrix, threatened claims or actions against CombiMatrix, any of its Subsidiaries, any CombiMatrix trustee or any trustee of any Subsidiary under any worker s compensation policy or long-term disability policy. Neither CombiMatrix nor any Subsidiary thereof is party to a conciliation agreement, consent decree or other agreement or order with any federal, state or local agency or governmental authority with respect to employment practices.

- (r) Except as set forth in Section 2.13(r) of the CombiMatrix Disclosure Schedule, none of the execution and delivery of this Agreement, or the consummation of the Contemplated Transactions or any termination of employment or service or any other event in connection therewith or subsequent thereto will, individually or together or with the occurrence of some other event, (i) result in any payment (including severance, unemployment compensation, golden parachute, bonus or otherwise) becoming due to any employee, independent contractor or director of CombiMatrix, (ii) materially increase or otherwise enhance any benefits otherwise payable by CombiMatrix, (iii) result in the acceleration of the time of payment or vesting of any such benefits, except as required under Section 411(d)(3) of the Code, (iv) increase the amount of compensation due to any Person by CombiMatrix or (v) result in the forgiveness in whole or in part of any outstanding loans made by CombiMatrix to any Person.
- (s) No current or former independent contractor of CombiMatrix who terminated service since January 1, 2011, would reasonably be deemed to be a misclassified employee. Except as set forth in Section 2.13(s) of the CombiMatrix Disclosure Schedule, no independent contractor is eligible to participate in any CombiMatrix Employee Plan. Neither CombiMatrix nor any of its Subsidiaries has any material liability with respect to any misclassification of: (a) any Person as an independent contractor rather than as an employee, (b) any employee leased from another employer or (c) any employee currently or formerly classified as exempt from overtime wages. Neither CombiMatrix nor any Subsidiary has taken any action which would constitute a plant closing or mass layoff within the meaning of the WARN Act or similar state or local law, issued any notification of a plant closing or mass layoff required by the WARN Act or similar state or local law, or incurred any liability or obligation under WARN or any similar state or local law that remains unsatisfied. No terminations of employees of CombiMatrix or any of its Subsidiaries prior to the Closing would trigger any notice or other obligations under the WARN Act or similar state or local law.
- (t) With respect to each CombiMatrix Employee Plan, CombiMatrix has made available to Invitae a true and complete copy of, to the extent applicable, (i) such CombiMatrix Employee Plan, (ii) the three (3) most recent annual reports (Form 5500) as filed with the Internal Revenue Service, (iii) each currently effective trust agreement related to such CombiMatrix Employee Plan, (iv) the most recent summary plan description for each CombiMatrix Employee Plan for which such description is required, along with all summaries of material modifications, amendments, resolutions and all other material plan documentation related thereto in the possession of CombiMatrix, (v) the most recent Internal Revenue Service determination or opinion letter or analogous ruling under foreign law issued with respect to any CombiMatrix Employee Plan, (vi) all material notices, letters or other correspondence to or from any Governmental Body or agency thereof within the last three years, (vii) all non-discrimination tests for the most recent three plan years, (viii) all material written agreements and Contracts currently in effect, including administrative

service agreements, group annuity contracts and group

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insurance contracts, (ix) all material written employee communications within the past three years, and (x) all registration statements and prospectuses prepared in connection with each CombiMatrix Employee Plan.

### 2.14 Environmental Matters.

- (a) CombiMatrix and each CombiMatrix Subsidiary is in compliance with all applicable Environmental Laws in all material respects, which compliance includes the possession by CombiMatrix of all required permits, licenses, or authorizations issued, granted, or given by or under the authority of any Governmental Body pursuant to any applicable Environmental Laws, and is in material compliance with the terms and conditions thereof. Neither CombiMatrix nor any CombiMatrix Subsidiary has received since January 1, 2014 any written notice or other communication, whether from a Governmental Body, citizens group, employee or otherwise, that alleges that CombiMatrix or any CombiMatrix Subsidiary is not in material compliance with any Environmental Law. To the Knowledge of CombiMatrix, there are no circumstances that may prevent or interfere with CombiMatrix s or any of its Subsidiaries compliance with any Environmental Law in the future. Since January 1, 2014: (i) no current or prior real property leased or controlled by CombiMatrix or any of its Subsidiaries is or has become subject to any written notice or other communication, whether from a Governmental Body, citizens group, employee or otherwise, alleging material liability against CombiMatrix or any CombiMatrix Subsidiary on the basis that such real property is not in compliance with or has violated any Environmental Law relating to such property; and (ii) neither it nor any of its Subsidiaries has any unresolved material liability under any applicable Environmental Law.
- **(b)** Notwithstanding any other provisions of this Agreement, the representations and warranties of this <u>Section 2.14</u> are the sole and exclusive representations by CombiMatrix or any CombiMatrix Subsidiary with respect to compliance with any Environmental Laws.

#### 2.15 Insurance.

- (a) CombiMatrix has delivered to Invitae accurate and complete copies of all material insurance policies and all material self-insurance programs and arrangements relating to the business, assets, liabilities and operations of CombiMatrix and each CombiMatrix Subsidiary. Each of such insurance policies is in full force and effect and CombiMatrix and each CombiMatrix Subsidiary are in compliance with the terms thereof. Other than customary end of policy notifications from insurance carriers, since January 1, 2014, neither CombiMatrix nor any CombiMatrix Subsidiary has received any written notice or other communication regarding any actual or possible: (i) cancellation or invalidation of any insurance policy; (ii) refusal or denial of any coverage, reservation of rights or rejection of any material claim under any insurance policy; or (iii) material adjustment in the amount of the premiums payable with respect to any insurance policy. There is no pending workers compensation or other claim under or based upon any insurance policy of CombiMatrix or any CombiMatrix Subsidiary. All information provided to insurance carriers (in applications and otherwise) on behalf of CombiMatrix and each CombiMatrix Subsidiary is accurate and complete in all material respects. CombiMatrix and each CombiMatrix Subsidiary have provided timely written notice to the appropriate insurance carrier(s) of each Legal Proceeding pending or threatened against CombiMatrix or any CombiMatrix Subsidiary, and no such carrier has issued a written denial of coverage or a reservation of rights with respect to any such Legal Proceeding, or informed CombiMatrix or any CombiMatrix Subsidiary in writing of its intent to do so.
- (b) CombiMatrix has delivered to Invitae accurate and complete copies of the existing policies (primary and excess) of directors and officers liability insurance maintained by CombiMatrix and each CombiMatrix Subsidiary as of the date of this Agreement (the *CombiMatrix D&O Policies* <u>)</u>. Section 2.15(b) of the CombiMatrix Disclosure Schedule accurately sets forth the most recent annual premiums paid by CombiMatrix and each CombiMatrix Subsidiary with respect to the CombiMatrix D&O Policies. All premiums for the CombiMatrix D&O Policies have been paid.

## 2.16 Legal Proceedings; Orders.

(a) Except as set forth in <u>Section 2.16(a)</u> of the CombiMatrix Disclosure Schedule, there is no pending Legal Proceeding, and, to the Knowledge of CombiMatrix, no Person has threatened in writing to commence any

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Legal Proceeding: (i) that involves CombiMatrix or any of its Subsidiaries, any CombiMatrix Associate (in his or her capacity as such) or any of the material assets owned or used by CombiMatrix or its Subsidiaries; or (ii) that challenges, or that may have the effect of preventing, delaying, making illegal or otherwise interfering with, the Merger or any of the other Contemplated Transactions. To the Knowledge of CombiMatrix, no event has occurred, and no claim, dispute or other condition or circumstance exists, that will, or that would reasonably be expected to, give rise to or serve as a basis for the commencement of any such Legal Proceeding.

- (b) There is no order, writ, injunction, judgment or decree to which CombiMatrix or any CombiMatrix Subsidiary, or any of the material assets owned or used by CombiMatrix or any CombiMatrix Subsidiary is subject. To the Knowledge of CombiMatrix, no officer or other Key Employee of CombiMatrix or any CombiMatrix Subsidiary is subject to any order, writ, injunction, judgment or decree that prohibits such officer or other Key Employee from engaging in or continuing any conduct, activity or practice relating to the business of CombiMatrix or any CombiMatrix Subsidiary.
- 2.17 Authority; Binding Nature of Agreement. CombiMatrix and each CombiMatrix Subsidiary has all necessary corporate power and authority to enter into and to perform its obligations under this Agreement. The CombiMatrix Board of Directors (at one or more meetings duly called and held) has: (a) determined that the Merger is advisable and fair to and in the best interests of CombiMatrix and its stockholders; (b) duly authorized and approved by all necessary corporate action, the execution, delivery and performance of this Agreement and the Contemplated Transactions, including the Merger; and (c) recommended adoption and approval of the Merger Proposal, including the adoption and approval of this Agreement and the Merger, by the holders of CombiMatrix Common Stock and directed that the Merger Proposal be submitted for consideration by CombiMatrix s stockholders in connection with the solicitation of the Required CombiMatrix Stockholder Vote. This Agreement has been duly executed and delivered by CombiMatrix and, assuming the due authorization, execution and delivery by Invitae, constitutes the legal, valid and binding obligation of CombiMatrix, enforceable against CombiMatrix in accordance with its terms, subject to: (i) laws of general application relating to bankruptcy, insolvency and the relief of debtors; and (ii) rules of law governing specific performance, injunctive relief and other equitable remedies. Prior to the execution of the CombiMatrix Transaction Bonus Payout Agreements, the CombiMatrix Board of Directors approved the CombiMatrix Transaction Bonus Payout Agreements and the transactions contemplated thereby.
- **2.18 Inapplicability of Anti-takeover Statutes**. The CombiMatrix Board of Directors has taken and will take all actions necessary to ensure that the restrictions applicable to business combinations contained in Section 203 of the DGCL are, and will be, inapplicable to the execution, delivery and performance of this Agreement and to the consummation of the Merger and the other Contemplated Transactions. No other state takeover statute or similar Legal Requirement applies or purports to apply to the Merger, this Agreement, or any of the other Contemplated Transactions.
- **2.19 Vote Required**. The affirmative vote of a majority of the shares of CombiMatrix Common Stock outstanding on the record date for the CombiMatrix Special Meeting and entitled to vote thereon (the *Required CombiMatrix Stockholder Vote*) is the only vote of the holders of any class or series of CombiMatrix Capital Stock necessary to adopt or approve the Merger Proposal.

### 2.20 Non-Contravention; Consents.

(a) Neither the execution, delivery or performance of this Agreement by CombiMatrix, nor the consummation of the Merger or any of the Contemplated Transactions, will: (i) violate or conflict with any provision of the certificate of incorporation or the bylaws of CombiMatrix; or (ii) constitute a material violation of, or be in conflict in any material respect with, any statute, judgment, decree, order, regulation or rule of any court or Governmental Authority

applicable to CombiMatrix.

**(b)** No Consent of or Filing with any Governmental Authority is required for the execution and delivery by CombiMatrix of this Agreement or the consummation by CombiMatrix of the Contemplated

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Transactions, except for (i) the filing with the SEC of such reports under the Exchange Act and the Form S-4 Merger Registration Statement under the Securities Act as may be required in connection with this Agreement and the Contemplated Transactions, (ii) compliance with, and if applicable, the filing of a premerger notification and report form under the HSR Act, (iii) the filing of the Certificate of Merger with the Secretary of State of the State of Delaware pursuant to the DGCL, and (iv) any filing with NASDAQ.

(c) Except (i) for any Consent set forth in Section 2.20(c) of the CombiMatrix Disclosure Schedule under any CombiMatrix Contract, (ii) the adoption and approval of the Merger Proposal by CombiMatrix s stockholders, (iii) any Consents or Filings described in Section 2.20(b), and (iv) such Consents, orders and Filings as may be required under applicable federal and state securities laws, neither CombiMatrix nor any of its Subsidiaries was, is or will be required to make any Filing with or give any notice to, or to obtain any Consent from, any Person in connection with (x) the execution, delivery or performance of this Agreement or (y) the consummation of the Merger or any of the other Contemplated Transactions.

### 2.21 Bank Accounts; Receivables.

- (a) Section 2.21(a) of the CombiMatrix Disclosure Schedule provides accurate information with respect to each account maintained by or for the benefit of CombiMatrix or any CombiMatrix Subsidiary at any bank or other financial institution, including the name of the bank or financial institution, the account number, the balance as of June 30, 2017 and the names of all individuals authorized to draw on or make withdrawals from such accounts.
- (b) All existing accounts receivable of CombiMatrix or any CombiMatrix Subsidiary (including those accounts receivable reflected on the CombiMatrix Unaudited Interim Balance Sheet that have not yet been collected and those accounts receivable that have arisen since the date of the CombiMatrix Unaudited Interim Balance Sheet and have not yet been collected) (i) represent valid obligations of customers of CombiMatrix or any CombiMatrix Subsidiary arising from bona fide transactions entered into in the Ordinary Course of Business, and (ii) are current and are expected to be collected in full when due, without any counterclaim or set off, net of applicable reserves for bad debts on the CombiMatrix Unaudited Interim Balance Sheet. All deposits of CombiMatrix (including those set forth on the CombiMatrix Unaudited Interim Balance Sheet) which are individually more than \$10,000 or more than \$25,000 in the aggregate are fully refundable to CombiMatrix.
- **2.22 No Financial Advisor.** Except as set forth in <u>Section 2.22</u> of the CombiMatrix Disclosure Schedule, no broker, finder or investment banker is entitled to any brokerage fee, finder s fee, opinion fee, success fee, transaction fee or other fee or commission in connection with the Merger or any of the other Contemplated Transactions based upon arrangements made by or on behalf of CombiMatrix or any of its Subsidiaries.
- **2.23 Opinion of Financial Advisor**. The CombiMatrix Board of Directors (in its capacity as such) has received an opinion of Torreya Partners LLC, financial advisor to CombiMatrix, to the effect that, as of the date of such opinion and based upon and subject to the various assumptions, qualifications and limitations set forth therein, the Exchange Ratio is fair to CombiMatrix from a financial point of view. Promptly following execution of this Agreement, CombiMatrix will furnish an accurate and complete copy of such opinion to Invitae.
- **2.24 Shell Company Status**. CombiMatrix is not an issuer identified in Rule 144(i)(1) or of the Securities Act or a shell company as defined in Rule 12b-2 of the Exchange Act.
- **2.25 Transactions with Affiliates**. Since the date of CombiMatrix s last proxy statement filed in 2017 with the SEC, no event has occurred that would be required to be reported by CombiMatrix pursuant to Item 404 of Regulation S-K promulgated by the SEC. Section 2.25 of the CombiMatrix Disclosure Schedule identifies each Person who is (or who

may be deemed to be) an Affiliate of CombiMatrix as of the date of this Agreement.

**2.26** Code of Ethics. CombiMatrix has adopted a code of ethics, as defined by Item 406(b) of Regulation S-K of the SEC, for senior financial officers, applicable to its principal executive officer, principal financial

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officer, controller or principal accounting officer, or persons performing similar functions. CombiMatrix has promptly disclosed any change in or waiver of CombiMatrix s code of ethics with respect to any such persons, as required by Section 406(b) of the Sarbanes-Oxley Act. To the Knowledge of CombiMatrix, there have been no violations of provisions of CombiMatrix s code of ethics by any such persons.

**2.27 Disclosure**. The information supplied by CombiMatrix and each CombiMatrix Subsidiary for inclusion in the Form S-4 Merger Registration Statement and Proxy Statement/Prospectus (including any CombiMatrix financials) will not, at the time that the Proxy Statement/Prospectus or any amendment or supplement thereto is filed with the SEC or is first mailed to the stockholders of CombiMatrix, at the time of the CombiMatrix Stockholders Meeting and at the Effective Time, (i) contain any untrue statement of material fact or (ii) omit to state any material fact necessary in order to make such statements, in the light of the circumstances under which such statements are made, not misleading. The information supplied by CombiMatrix and each CombiMatrix Subsidiary for inclusion in the Form S-4 Warrant Exchange Offer Registration Statement or in the other Offer Documents (including any CombiMatrix financials) will not, as of the date any Offer Document is first mailed to holders of CombiMatrix Series F Warrants and at the Closing, (i) contain any untrue statement of material fact or (ii) omit to state any material fact necessary in order to make such statements, in the light of the circumstances under which such statements are made, not misleading.

**2.28 Exclusivity of Representations**. Except as expressly set forth in this <u>Section 2</u>, neither CombiMatrix nor any Person on behalf of CombiMatrix has made, nor are any of them making, any representation or warranty, written or oral, express or implied, at law or in equity, including with respect to merchantability or fitness for any particular purpose, in respect of CombiMatrix or its business in connection with the Contemplated Transactions, including any representations or warranties about the accuracy or completeness of any information or documents previously provided (including with respect to any financial or other projections therein), and any other such representations and warranties are hereby expressly disclaimed.

## Section 3. REPRESENTATIONS AND WARRANTIES OF INVITAE AND MERGER SUB

Invitae and Merger Sub represent and warrant to CombiMatrix as follows, except as set forth in the written disclosure schedule delivered by Invitae to CombiMatrix (the *Invitae Disclosure Schedule*). The Invitae Disclosure Schedule shall be arranged in sections and subsections corresponding to the numbered and lettered sections and subsections contained in this <u>Section 3</u>. The disclosures in any section or subsection of the Invitae Disclosure Schedule shall qualify other sections and subsections in this <u>Section 3</u> to the extent it is reasonably clear from a reading of the disclosure that such disclosure is applicable to such other sections and subsections. The inclusion of any information in the Invitae Disclosure Schedule (or any update thereto) shall not be deemed to be an admission or acknowledgment, in and of itself, that such information is required by the terms hereof to be disclosed, is material, has resulted in or would result in an Invitae Material Adverse Effect, or is outside the Ordinary Course of Business.

**3.1 Organization; Authority; Enforceability**. Each of Invitae and Merger Sub is a corporation duly incorporated, validly existing and in good standing under the laws of Delaware. All corporate action (including, with respect to Merger Sub, by its sole stockholder) required to be taken in order to authorize Invitae and Merger Sub to enter into this Agreement has been taken. All action on the part of the officers of Invitae and Merger Sub necessary for the execution and delivery of this Agreement and the performance of all obligations of Invitae and Merger Sub under this Agreement has been taken (other than, with respect to the consummation of the Merger, the filing of a certificate of merger with the Secretary of State of the State of Delaware). This Agreement has been duly executed and delivered by Invitae and Merger Sub and constitutes the legal, valid and binding obligation of Invitae and Merger Sub, enforceable against Invitae and Merger Sub in accordance with its terms except (i) as limited by applicable bankruptcy, insolvency, reorganization, moratorium, fraudulent conveyance, or other laws of general application relating to or

affecting the enforcement of creditors rights generally, or (ii) as limited by laws relating to the availability of specific performance, injunctive relief, or other equitable remedies. Invitae and Merger Sub are each qualified to do business as a foreign corporation, and is in good

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standing, under the laws of all jurisdictions where the nature of its business requires such qualification other than in jurisdictions where the failure to be so qualified individually or in the aggregate would not be reasonably expected to have an Invitae Material Adverse Effect.

### 3.2 Non-Contravention; Governmental Consents.

- (a) Neither the execution, delivery or performance of this Agreement by Invitae or Merger Sub, nor the consummation of the Merger or any of the Contemplated Transactions, will: (i) violate or conflict with any provision of the respective certificates of incorporation or the bylaws of Invitae or Merger Sub; or (ii) to the Knowledge of Invitae, constitute a material violation of, or be in conflict in any material respect with, any statute, judgment, decree, order, regulation or rule of any court or Governmental Authority applicable to Invitae or Merger Sub.
- (b) No Consent of or Filing with any Governmental Authority is required for the execution and delivery by Invitae or Merger Sub of this Agreement or the consummation by Invitae or Merger Sub of the Contemplated Transactions, except for (i) the filing with the SEC of the Form S-4 Merger Registration Statement, the Form S-4 Warrant Exchange Offer Registration Statement and any other applicable Offer Documents, and such reports under the Exchange Act and under the Securities Act as may be required in connection with this Agreement and the Contemplated Transactions, (ii) compliance with and, if applicable, the filing of a premerger notification and report form under the HSR Act, (iii) the filing of the Certificate of Merger with the Secretary of State of the State of Delaware pursuant to the DGCL, (iv) the filing with The New York Stock Exchange (the *NYSE*) in respect of the shares of Invitae Common Stock issuable pursuant to this Agreement (with respect to both the Merger and the Warrant Exchange Offer) and (iv) such Consents, orders and Filings as may be required under applicable federal or state securities laws.

### 3.3 SEC Documents.

- (a) Invitae has filed all reports required to be filed by it with the SEC since January 1, 2017, and Invitae has made available to CombiMatrix (including through the SEC s EDGAR database) true, correct and complete copies of all such reports (collectively, the *Invitae SEC Documents*). As of their respective dates, each of the Invitae SEC Documents complied in all material respects with the applicable requirements of the Exchange Act, and none of the Invitae SEC Documents, as of their respective dates, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. All statements, reports, schedules, forms and other documents required to have been filed by Invitae or its officers with the SEC have been so filed on a timely basis. The certifications and statements required by (A) Rule 13a-14 under the Exchange Act and (B) 18 U.S.C. §1350 (Section 906 of the Sarbanes-Oxley Act) relating to the Invitae SEC Documents (collectively, the *Invitae Certifications*) are accurate and complete and comply as to form and content with all applicable Legal Requirements. As used in this Section 3, the term file and variations thereof shall be broadly construed to include any manner in which a document or information is furnished, supplied or otherwise made available to the SEC.
- (b) Each of the consolidated financial statements (including, in each case, any notes thereto) contained in the Invitae SEC Documents was prepared in accordance with GAAP throughout the periods indicated (except as may be indicated in the notes thereto and except that financial statements included with interim reports do not contain all notes to such financial statements) and each fairly presented in all material respects the consolidated financial position, results of operations and changes in stockholders—equity and cash flows of Invitae and its consolidated subsidiaries as at the respective dates thereof and for the respective periods indicated therein (subject, in the case of unaudited statements, to normal year-end adjustments which are not expected, individually or in the aggregate, to be material). Other than as expressly disclosed in the Invitae SEC Documents filed prior to the date of this Agreement, there has been no material change in Invitae—s accounting methods or principles prior to the date of this Agreement that

would be required to be disclosed in Invitae s financial statements in accordance with GAAP. The books of account and other financial records of Invitae are true and complete in all material respects.

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- (c) Invitae is in compliance in all material respects with the applicable provisions of the Sarbanes-Oxley Act and the applicable listing and governance rules and regulations of The NYSE.
- (d) Invitae s disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act) are reasonably designed to ensure that all information (both financial and non-financial) required to be disclosed by Invitae in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the SEC, and that all such information is accumulated and communicated to Invitae s management as appropriate to allow timely decisions regarding required disclosure and to make the Invitae Certifications.
- **3.4 Compliance; Permits**. Invitae is in compliance in all material respects with all applicable Legal Requirements. Except for that certain Loan and Security Agreement dated as of March 15, 2017 between Oxford Capital, LLC and Invitae (as it may be amended from time to time), and the condition to closing contemplated by Section 7.8 (*i.e.*, the Oxford Consent), there is no agreement, judgment, injunction, order or decree binding upon Invitae which (i) may have an adverse effect on Invitae s ability to comply with or perform any covenant or obligation under this Agreement, or (ii) may have the effect of preventing, delaying, making illegal or otherwise interfering with the Merger or any of the other Contemplated Transactions. Invitae holds all required Governmental Authorizations issuable by any Governmental Body necessary for the conduct of the business of Invitae as currently conducted (the *Invitae Regulatory Permits*), except where the absence of any Governmental Authorization would not be reasonably expected to have an Invitae Material Adverse Effect, and, to the Knowledge of Invitae, no such Invitae Regulatory Permit has been (i) revoked, withdrawn, suspended, cancelled or terminated or (ii) modified in any adverse manner, other than immaterial adverse modifications.
- **3.5 No Financial Advisor**. No broker, finder or investment banker is entitled to any brokerage fee, finder s fee, opinion fee, success fee, transaction fee or other fee or commission in connection with the Merger or any of the other Contemplated Transactions based upon arrangements made by or on behalf of Invitae.
- **3.6 Legal Proceedings; Orders**. There is no pending Legal Proceeding, and, to the Knowledge of Invitae, no Person has threatened in writing to commence any Legal Proceeding, that challenges, or that may have the effect of preventing, delaying, making illegal or otherwise interfering with, the Merger or any of the other Contemplated Transactions.
- **3.7 Shares of Common Stock**. The shares of Invitae Common Stock to be issued and delivered to the CombiMatrix Stockholders as the Merger Consideration in accordance with this Agreement, when so issued and delivered, have been or will be, when issued, (i) duly authorized, validly issued, fully paid and nonassessable and not subject to preemptive rights created by statute, Invitae s certificate of incorporation or bylaws or any agreement to which Invitae is a party, and (ii) issued in compliance with applicable Legal Requirements, including securities laws, and all material requirements set forth in applicable Contracts.
- **3.8 No Vote of Invitae Stockholders**. Except for the adoption of this Agreement by Invitae as the sole stockholder of Merger Sub, no vote of the stockholders of Invitae is required by any Legal Requirement or the certificate of incorporation or bylaws of Invitae in order for Invitae to consummate the Merger or the Warrant Exchange Offer.
- **3.9 Lack of Ownership of Shares**. As of the date of this Agreement, neither Invitae nor any of its Subsidiaries owns, directly or indirectly, any securities of CombiMatrix.
- **3.10 Merger Sub Capitalization**. The authorized capital stock of Merger Sub consists of 1,000 shares of common stock, par value \$0.001 per share, all of which are validly issued and outstanding. All of the issued and outstanding

capital stock of Merger Sub is, and at the Effective Time will be, owned by Invitae. Merger Sub was formed solely for the purpose of engaging in the Contemplated Transactions, and it has not conducted any business prior to the date of this Agreement and has no, and prior to the Effective Time will have no, assets, liabilities or obligations of any nature other than those incident to its formation and pursuant to this Agreement, the Merger and the other actions contemplated by this Agreement.

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- **3.11 Disclosure.** The information supplied by Invitae for inclusion in the Form S-4 Merger Registration Statement and Proxy Statement/Prospectus (including any Invitae financials) will not, at the time that the Proxy Statement/Prospectus or any amendment or supplement thereto is filed with the SEC or is first mailed to the stockholders of CombiMatrix, at the time of the CombiMatrix Stockholders Meeting and at the Effective Time, (i) contain any untrue statement of material fact or (ii) omit to state any material fact necessary in order to make such statements, in the light of the circumstances under which such statements are made, not misleading. The information supplied by Invitae for inclusion in the Form S-4 Warrant Exchange Offer Registration Statement or in the other Offer Documents (including any Invitae financials) will not, as of the date any Offer Document is first mailed to holders of CombiMatrix Series F Warrants and at the Closing, (i) contain any untrue statement of material fact or (ii) omit to state any material fact necessary in order to make such statements, in the light of the circumstances under which such statements are made, not misleading.
- **3.12 Exclusivity of Representations**. Except as expressly set forth in this <u>Section 3</u>, neither Invitae, Merger Sub, nor any Person on behalf of Invitae or Merger Sub has made, nor are any of them making, any representation or warranty, written or oral, express or implied, at law or in equity, including with respect to merchantability or fitness for any particular purpose, in respect of Invitae or its business in connection with the Contemplated Transactions, including any representations or warranties about the accuracy or completeness of any information or documents previously provided (including with respect to any financial or other projections therein), and any other such representations and warranties are hereby expressly disclaimed.

### Section 4. CERTAIN COVENANTS OF THE PARTIES

### 4.1 Access and Investigation.

- (a) Subject to the terms of the Confidentiality Agreement which the Parties agree will continue in full force following the date of this Agreement, during the period commencing on the date of this Agreement and ending at the Effective Time (the *Pre-Closing Period*), upon reasonable notice CombiMatrix shall, and shall use commercially reasonable efforts to cause CombiMatrix s Representatives to: (a) provide Invitae and Invitae s Representatives with reasonable access during normal business hours to CombiMatrix s Representatives, personnel and assets and to all existing books, records, Tax Returns, work papers and other documents and information relating to CombiMatrix and its Subsidiaries; (b) provide Invitae and Invitae s Representatives with such copies of the existing books, records, Tax Returns, work papers, product, technology and service data, and other documents and information relating to CombiMatrix and its Subsidiaries, and with such additional financial, operating and other data and information regarding CombiMatrix and its Subsidiaries as Invitae may reasonably request; and (c) permit Invitae s officers and other employees to meet, upon reasonable notice and during normal business hours, with the chief financial officer and other officers and managers of CombiMatrix responsible for CombiMatrix s financial statements and the internal controls of CombiMatrix to discuss such matters as Invitae deem necessary or appropriate in order to enable Invitae to satisfy its obligations under the Sarbanes-Oxley Act and the rules and regulations relating thereto. Without limiting the generality of any of the foregoing, during the Pre-Closing Period, CombiMatrix shall promptly make available to Invitae copies of:
- (i) the unaudited monthly consolidated balance sheets of CombiMatrix as of the end of each calendar month and the related unaudited monthly consolidated statements of operations, statements of stockholders equity and statements of cash flows for such calendar month, which shall be delivered within 20 days after the end of such calendar month, or such longer periods as Invitae may agree to in writing;
- (ii) all material operating and financial reports prepared by CombiMatrix for its senior management, including sales forecasts, marketing plans, development plans, discount reports, write-off reports, hiring reports and capital expenditure reports prepared for its management;

- (iii) any written materials or communications sent by or on behalf of CombiMatrix to its stockholders;
- (iv) any intended filing under the Exchange Act, which shall be delivered in the proposed form for filing at least two
- (2) Business Days before the proposed date of filing (to the extent practicable);

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- (v) any material notice, document or other communication sent by or on behalf of CombiMatrix to any party to any CombiMatrix Material Contract or sent to CombiMatrix by any party to any CombiMatrix Material Contract (other than any communication that relates solely to routine commercial transactions between CombiMatrix and the other party to any such CombiMatrix Material Contract, and that is of the type sent in the Ordinary Course of Business and consistent with past practices);
- (vi) any notice, report or other document filed with or otherwise furnished, submitted or sent to any Governmental Body on behalf of CombiMatrix in connection with the Merger or any of the Contemplated Transactions;
- (vii) any non-privileged notice, document or other communication sent by or on behalf of, or sent to, CombiMatrix relating to any pending or threatened Legal Proceeding involving or affecting CombiMatrix; and
- (viii) any material notice, report or other document received by CombiMatrix from any Governmental Body.

Notwithstanding the foregoing, CombiMatrix may restrict the foregoing access to the extent that (x) any Legal Requirement applicable to CombiMatrix requires CombiMatrix to restrict or prohibit access to any of CombiMatrix s properties or information or (y) such access or disclosure would jeopardize the attorney-client privilege of such information.

(b) Invitae and Invitae s Representatives, respectively, will not use any information obtained pursuant to Section 4.1(a) (to which it was not entitled under any Legal Requirement or any agreement other than this Agreement) for any purpose unrelated (i) to the consummation of the Contemplated Transactions or (ii) the matters contemplated by this Agreement, and will hold all information and documents obtained pursuant to Section 4.1(a) subject to the terms of the Confidentiality Agreement.

## 4.2 Operation of CombiMatrix s Business.

- (a) During the Pre-Closing Period: (i) CombiMatrix shall conduct its business and operations solely: (A) in the Ordinary Course of Business; and (B) in compliance with all applicable Legal Requirements, Health Laws, Information Privacy and Security Laws, Trade Control Laws, CombiMatrix Regulatory Permits, CAP standards of accreditation, Payment Programs, and the requirements of all Contracts that constitute CombiMatrix Material Contracts; (ii) CombiMatrix shall continue to pay outstanding accounts payable and other current Liabilities (including payroll) when due and payable; and (iii) CombiMatrix shall promptly notify Invitae of: (A) any notice or other communication from any Person alleging that the Consent of such Person is or may be required in connection with any of the Contemplated Transactions; (B) any Legal Proceeding against, relating to, involving or otherwise affecting CombiMatrix that is commenced, or, to the Knowledge of CombiMatrix, threatened against, CombiMatrix after the date of this Agreement; and (C) any notice or other communication from any Person alleging that any payment or other obligation is or will be owed to such Person at any time before or after the date of this Agreement, except for invoices or other communications related to agreements or dealings in the Ordinary Course of Business or payments or obligations identified in this Agreement, including the CombiMatrix Disclosure Schedule. CombiMatrix shall, acting in the Ordinary Course of Business, use commercially reasonable efforts to preserve intact the Acquired Corporations current business organization, including keeping available the services of current officers and key employees, and use commercially reasonable efforts to maintain their respective relations and good will with Governmental Bodies and all significant suppliers, customers, licensors, licensees, distributors and lessors and other significant business relations.
- (b) During the Pre-Closing Period, CombiMatrix shall promptly notify Invitae in writing, by delivering an updated CombiMatrix Disclosure Schedule, of: (i) the discovery by CombiMatrix of any event, condition, fact or circumstance

that occurred or existed on or prior to the date of this Agreement and that causes or constitutes a material inaccuracy in any representation or warranty made by CombiMatrix in this Agreement in a manner that would cause the conditions set forth in <u>Section 7.1</u> not to be satisfied; (ii) any event, condition, fact or circumstance that occurs, arises or exists after the date of this Agreement and that would cause or constitute a

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material inaccuracy in any representation or warranty made by CombiMatrix in this Agreement in a manner that would cause the conditions set forth in Section 7.1 not to be satisfied if: (A) such representation or warranty had been made as of the time of the occurrence, existence or discovery of such event, condition, fact or circumstance; or (B) such event, condition, fact or circumstance had occurred, arisen or existed on or prior to the date of this Agreement; (iii) any material breach of any covenant or obligation of CombiMatrix; and (iv) any event, condition, fact or circumstance that would reasonably be expected to make the timely satisfaction of any of the conditions set forth in Section 6, Section 7 and Section 8 impossible or materially less likely. Without limiting the generality of the foregoing, CombiMatrix shall promptly advise Invitae in writing of any Legal Proceeding or material, written claim threatened, commenced or asserted against or with respect to, or otherwise affecting, CombiMatrix or, to the Knowledge of CombiMatrix, any director, officer or Key Employee of CombiMatrix. No notification given to Invitae (including pursuant to this Section 4.2(b)) shall change, limit or otherwise affect any of the representations, warranties, covenants or obligations of CombiMatrix or any of its Subsidiaries contained in this Agreement or the CombiMatrix Disclosure Schedule (including for purposes of Section 7.1).

### 4.3 Negative Obligations.

Except (i) as expressly contemplated or permitted by this Agreement or (ii) with the prior written consent of Invitae, at all times during the period commencing with the execution and delivery of this Agreement and continuing until the earlier to occur of the termination of this Agreement pursuant to <u>Section 9</u> and the Effective Time, CombiMatrix shall not, nor shall it cause or permit any of its Subsidiaries to, do any of the following:

- (a) declare, accrue, set aside or pay any dividend or made any other distribution in respect of any shares of its capital stock; or repurchase, redeem or otherwise reacquire any shares of its capital stock or other securities (except for shares of CombiMatrix Common Stock from terminated employees of CombiMatrix);
- (b) sell, issue or grant, or authorize the issuance of: (i) any capital stock or other security (except for shares of CombiMatrix Common Stock issued upon the valid exercise of CombiMatrix Options, CombiMatrix RSUs or CombiMatrix Warrants outstanding as of the date of this Agreement); (ii) any option, warrant or right to acquire any capital stock or any other security; or (iii) any instrument convertible into or exchangeable for any capital stock or other security;
- (c) amend its certificate of incorporation, bylaws or other charter or organizational documents, or effect or be a party to any merger, consolidation, share exchange, business combination, recapitalization, reclassification of shares, stock split, reverse stock split or similar transaction except as related to the Contemplated Transactions;
- (d) form any Subsidiary or acquire any equity interest or other interest in any other Entity;
- (e) lend money to any Person; other than in the Ordinary Course of Business, incur or guarantee any indebtedness for borrowed money; issue or sell any debt securities or options, warrants, calls or other rights to acquire any debt securities; guarantee any debt securities of others; or, other than in the Ordinary Course of Business, make any capital expenditure or commitment;
- (f) adopt, establish or enter into any CombiMatrix Employee Plan; cause or permit any CombiMatrix Employee Plan to be amended other than as required by law or in order to make amendments for the purposes of compliance with Section 409A of the Code; except as set forth on Schedule 4.3(f), pay any bonus or make any profit-sharing or similar payment to, or increase the amount of the wages, salary, commissions, fringe benefits or other compensation or remuneration payable to, any of its directors, employees or consultants; or pay or increase the severance or change of control benefits offered to any current or new employee or consultant;

- (g) enter into any material transaction outside the Ordinary Course of Business;
- (h) purchase, lease, license or otherwise acquire, or sell, lease, license or otherwise dispose of, any asset, right or property, or grant any Encumbrance with respect to any asset, right or property, except in the Ordinary Course of Business consistent with past practices;

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- (i) make, change or revoke any material Tax election; file any material amendment to any Tax Return; adopt or change any accounting method in respect of Taxes; change any annual Tax accounting period; enter into any Tax allocation agreement, Tax sharing agreement or Tax indemnity agreement, other than commercial contracts entered into in the Ordinary Course of Business with vendors, customers or landlords; enter into any closing agreement with respect to any Tax; settle or compromise any claim, notice, audit report or assessment in respect of material Taxes; apply for or enter into any ruling from any Tax authority with respect to Taxes; surrender any right to claim a material Tax refund; or consent to any extension or waiver of the statute of limitations period applicable to any material Tax claim or assessment;
- (j) without the prior written consent of Invitae which shall not be unreasonably withheld, delayed or conditioned, enter into, amend or terminate any CombiMatrix Material Contract;
- (k) without the prior written consent of Invitae which shall not be unreasonably withheld, delayed or conditioned, (i) materially change pricing, royalties or other payments set or charged to its customers or licensees, or (ii) materially increase pricing, royalties or other payments set or charged by vendors or persons who have licensed Intellectual Property to it; or
- (I) agree, resolve or commit to do any of the foregoing.

### 4.4 No Solicitation.

- (a) CombiMatrix agrees that neither it nor any of its Subsidiaries shall, nor shall it nor any of its Subsidiaries authorize or permit any of the Representatives retained by it or any of its Subsidiaries to, directly or indirectly: (i) solicit, initiate, respond to or take any action to facilitate or encourage any inquiries or the communication, making, submission or announcement of any Acquisition Proposal or Acquisition Inquiry or take any action that could reasonably be expected to lead to an Acquisition Proposal or Acquisition Inquiry; (ii) enter into or participate in any discussions or negotiations with any Person with respect to any Acquisition Proposal or Acquisition Inquiry; (iii) furnish any information regarding CombiMatrix or any of its Subsidiaries to any Person in connection with, in response to, relating to or for the purpose of assisting with or facilitating an Acquisition Proposal or Acquisition Inquiry; (iv) approve, endorse or recommend any Acquisition Proposal (subject to Section 5.2); (v) execute or enter into any letter of intent or similar document or any Contract contemplating or otherwise relating to any Acquisition Transaction (an Acquisition Agreement); or (vi) grant any waiver or release under any confidentiality, standstill or similar agreement (other than to Invitae).
- (b) Notwithstanding anything contained in Section 4.4(a), prior to the Merger Proposal having been adopted and approved at the CombiMatrix Stockholders Meeting (or any adjournment or postponement thereof) by the Required CombiMatrix Stockholder Vote, (i) CombiMatrix may enter into discussions or negotiations with any Person that has made (and not withdrawn) a bona fide, unsolicited, Acquisition Proposal, which CombiMatrix s Board of Directors determines in good faith, after consultation with its independent financial advisor, if any, and its outside legal counsel, constitutes, or would reasonably be expected to result in, a Superior Offer, and (ii) thereafter furnish to such Person non-public information regarding CombiMatrix pursuant to an executed confidentiality agreement containing provisions (including nondisclosure provisions, use restrictions, non-solicitation provisions, no-hire provisions and standstill provisions) at least as favorable to CombiMatrix as those contained in the Confidentiality Agreement, but in each case of the foregoing clauses (i) and (ii), only if: (A) neither CombiMatrix nor any Representative of CombiMatrix has breached this Section 4.4; (B) the CombiMatrix Board of Directors determines in good faith based on the advice of outside legal counsel that the failure to take such action would reasonably be expected to result in a breach of the fiduciary duties of the CombiMatrix Board of Directors under applicable Legal Requirements; (C) at least five (5) Business Days prior to furnishing any such non-public information to, or entering into discussions with,

such Person, CombiMatrix gives Invitae written notice of the identity of such Person, the terms and conditions of any proposals or offers (including, if applicable, copies of any written requests, proposals or offers, including proposed agreements) made thereby, and CombiMatrix s intention to furnish nonpublic information to, or enter into discussions with, such Person; and (D) at least five (5) Business Days prior to furnishing any such non-public information to such Person, CombiMatrix furnishes such non-public information to Invitae (to the extent such non-public information

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has not been previously furnished by CombiMatrix to Invitae). Without limiting the generality of the foregoing, CombiMatrix acknowledges and agrees that, in the event any CombiMatrix Representative (whether or not such Representative is purporting to act on behalf of CombiMatrix) takes any action that, if taken by CombiMatrix, would constitute a breach of this Section 4.4 by CombiMatrix, the taking of such action by such Representative shall be deemed to constitute a breach of this Section 4.4 by CombiMatrix for purposes of this Agreement.

- (c) If CombiMatrix or any CombiMatrix Representative receives an Acquisition Proposal or Acquisition Inquiry at any time during the Pre-Closing Period, then CombiMatrix shall promptly (and in no event later than twenty-four (24) hours after CombiMatrix becomes aware of such Acquisition Proposal or Acquisition Inquiry) advise Invitae orally and in writing of such Acquisition Proposal or Acquisition Inquiry (including the identity of the Person making or submitting such Acquisition Proposal or Acquisition Inquiry, the terms thereof, and any written materials submitted therewith). CombiMatrix shall keep Invitae fully informed, on a current basis, in all material respects with respect to the status and terms of any such Acquisition Proposal or Acquisition Inquiry and any modification or proposed modification thereto, and shall deliver copies of any written materials submitted therewith. In addition to the foregoing, CombiMatrix shall provide Invitae with at least five (5) Business Days written notice of a meeting of its board of directors (or any committee thereof) at which its board of directors (or any committee thereof) is reasonably expected to consider an Acquisition Proposal or Acquisition Inquiry CombiMatrix has received.
- (d) CombiMatrix shall and shall cause its Representatives to cease immediately and cause to be terminated, and shall not authorize or knowingly permit any of its Representatives to continue, any and all existing activities, discussions or negotiations, if any, with any third party conducted prior to the date of this Agreement with respect to any Acquisition Proposal and shall use its reasonable best efforts to cause any such third party (or its Representatives) in possession of non-public information in respect of CombiMatrix or its Subsidiaries that was furnished by or on behalf of CombiMatrix or its Subsidiaries to return or destroy (and confirm destruction of) all such information.

### Section 5. ADDITIONAL AGREEMENTS OF THE PARTIES

### 5.1 Registration Statement; Proxy Statement/Prospectus; Warrant Exchange Offer.

(a) As promptly as practicable after the date of this Agreement, the Parties shall prepare and cause to be filed with the SEC the Proxy Statement/Prospectus and, Invitae shall prepare and cause to be filed with the SEC the Form S-4 Merger Registration Statement (in which the Proxy Statement/Prospectus will be included as a prospectus). Invitae covenants to CombiMatrix that the Proxy Statement/Prospectus, including any pro forma financial statements included therein, will not, at the time that the Proxy Statement/Prospectus or any amendment or supplement thereto is filed with the SEC or is first mailed to the stockholders of CombiMatrix, at the time of the CombiMatrix Stockholders Meeting and at the Effective Time, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. Notwithstanding the foregoing, Invitae makes no covenant, representation or warranty with respect to statements made in the Proxy Statement/Prospectus by CombiMatrix or based on information furnished by CombiMatrix for inclusion therein. Each of the Parties shall use commercially reasonable efforts to cause the Form S-4 Merger Registration Statement and the Proxy Statement/Prospectus to comply with the applicable rules and regulations promulgated by the SEC, to respond promptly to any comments of the SEC or its staff and to have the Form S-4 Merger Registration Statement declared effective under the Securities Act as promptly as practicable after it is filed with the SEC. Prior to the Form S-4 Merger Registration Statement being declared effective, (1) CombiMatrix shall execute and deliver to Stradling Yocca Carlson & Rauth, P.C. ( Stradling ) and to Pillsbury Winthrop Shaw Pittman LLP ( Pillsbury ) the applicable Tax Representation Letter referenced in Section 5.9(c); and (2) Invitae shall execute and deliver to Pillsbury and to Stradling the applicable Tax Representation Letter referenced in Section 5.9(c). Following the delivery of the Tax Representation Letters pursuant

to the preceding sentence, (A) CombiMatrix shall use its commercially reasonable efforts to cause Stradling to deliver to it a tax opinion satisfying the requirements of Item 601(b)(8) of Regulation S-K under the Securities Act; and (B) Invitae shall use its commercially reasonable efforts to cause Pillsbury to deliver to it a tax opinion satisfying the

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requirements of Item 601(b)(8) of Regulation S-K under the Securities Act. In rendering such opinions, each of such counsel shall be entitled to rely on the Tax Representation Letters referred to in this Section 5.1(a) and Section 5.9(c). CombiMatrix shall use commercially reasonable efforts to cause the Proxy Statement/Prospectus to be mailed to CombiMatrix s stockholders as promptly as practicable after the Form S-4 Merger Registration Statement is declared effective under the Securities Act. Each Party shall promptly furnish to the other Party all information concerning such Party and such Party s Subsidiaries and such Party s stockholders that may be required or reasonably requested in connection with any action contemplated by this Section 5.1(a). If any event relating to CombiMatrix occurs, or if CombiMatrix becomes aware of any information, that should be disclosed in an amendment or supplement to the Form S-4 Merger Registration Statement or the Proxy Statement/Prospectus, then CombiMatrix shall promptly inform Invitae thereof and shall cooperate fully with Invitae in filing such amendment or supplement with the SEC and, if appropriate, in mailing such amendment or supplement to CombiMatrix s stockholders.

(b) The Parties shall use their commercially reasonable efforts to (i) do all things necessary or desirable to allow Invitae to commence an exchange offer (the Warrant Exchange Offer ) whereby holders of CombiMatrix Series F Warrants may elect to exchange outstanding CombiMatrix Series F Warrants for shares of Invitae Common Stock on a basis determined by Invitae in its sole discretion, (ii) cooperate in securing the agreement of holders of CombiMatrix Series F Warrants to participate in the Warrant Exchange Offer such that at least 90% of the CombiMatrix Series F Warrants outstanding immediately prior to the date of this Agreement are exchanged in the Warrant Exchange Offer (such threshold of exchange or exercise, the *Minimum Warrant Exchange Participation*) and (iii) do all things necessary or desirable to allow Invitae to consummate the Warrant Exchange Offer at or immediately prior to the Closing assuming the Minimum Warrant Exchange Participation is met and that the Closing is otherwise ready to occur (including because the conditions set forth in <u>Section 6</u>, <u>Section 7</u>, and <u>Section 8</u> have been satisfied or waived). Notwithstanding the foregoing, CombiMatrix shall have no obligations under this Section 5.1(b) to the extent that Invitae has not offered shares of Invitae Common Stock with a value (based on the Invitae Trailing Average Share Value) of at least \$2.90 (rounded to the nearest cent) per CombiMatrix Series F Warrant in the Warrant Exchange Offer. In connection with the Warrant Exchange Offer, the Parties shall cooperate with each other regarding, and prepare, offering documents, which the Parties will cause to comply as to form in all material respects with the applicable provisions of the Securities Act and the Exchange Act, for the purpose of effecting and consummating the Warrant Exchange Offer (the *Offer Documents* ). The Offer Documents shall include (1) an Offer to Exchange document describing the material terms of the Warrant Exchange Offer, (2) a Statement on Schedule TO with respect to the Warrant Exchange Offer, if required, (3) a registration statement on Form S-4 registering the Warrant Exchange Offer (the Form S-4 Warrant Exchange Offer Registration Statement ), (4) a statement by the CombiMatrix Board describing the CombiMatrix Board Recommendation and the Minimum Warrant Exchange Participation, including that the Minimum Warrant Exchange Participation is a condition to the obligations of Invitae and Merger Sub to effect the Merger, and (5) all ancillary documents related to the Warrant Exchange Offer, including exhibits, press releases, letters of transmittal, notices and announcements. Invitae covenants to CombiMatrix that the Offer Documents, including any pro forma financial statements included therein, will not, as of the date any Offer Document is first mailed to holders of CombiMatrix Series F Warrants and at the Closing, contain any untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. Notwithstanding the foregoing, Invitae makes no covenant, representation or warranty with respect to statements made in any Offer Document by CombiMatrix or based on information furnished by CombiMatrix for inclusion therein. Each of the Parties shall use commercially reasonable efforts to cause the Form S-4 Warrant Exchange Offer Registration and the other Offer Documents to comply with the applicable rules and regulations promulgated by the SEC, and to respond promptly to any comments of the SEC or its staff. Invitae shall, substantially contemporaneously with, or as promptly as practicable after, the filing of the Form S-4 Merger Registration Statement, file with the SEC the Form S-4 Warrant Exchange Offer Registration Statement and the Parties shall use commercially reasonable efforts to cause the Form S-4 Warrant Exchange Offer Registration Statement to be declared effective by the SEC so as to permit the Warrant

Exchange Offer to be conducted in a timely manner and consistent with applicable regulations and requirements under

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securities laws, including the Exchange Act. Prior to the Form S-4 Warrant Exchange Offer Registration Statement being declared effective, (1) CombiMatrix shall execute and deliver to Stradling and to Pillsbury the applicable Tax Representation Letter referenced in Section 5.9(c); and (2) Invitae shall execute and deliver to Pillsbury and to Stradling the applicable Tax Representation Letter referenced in Section 5.9(c). Following the delivery of the Tax Representation Letters pursuant to the preceding sentence, (A) CombiMatrix shall use its commercially reasonable efforts to cause Stradling to deliver to it a tax opinion satisfying the requirements of Item 601(b)(8) of Regulation S-K under the Securities Act; and (B) Invitae shall use its commercially reasonable efforts to cause Pillsbury to deliver to it a tax opinion satisfying the requirements of Item 601(b)(8) of Regulation S-K under the Securities Act. In rendering such opinions, each of such counsel shall be entitled to rely on the Tax Representation Letters referred to in this Section 5.1(b) and Section 5.9(c). When appropriate after the Form S-4 Warrant Exchange Offer Registration Statement becomes effective (i.e., so as to permit the Warrant Exchange Offer to be conducted in a timely manner and consistent with applicable regulations and requirements under securities laws, including the Exchange Act), the Parties shall cause the Offer Documents to be mailed to the holders of the CombiMatrix Series F Warrants. Each Party shall promptly furnish to the other Party all information concerning such Party and such Party s Subsidiaries and such Party s stockholders that may be required or reasonably requested in connection with any action contemplated by this Section 5.1(b). If any event relating to CombiMatrix occurs, or if CombiMatrix becomes aware of any information, that should be disclosed in an amendment or supplement to the Form S-4 Warrant Exchange Offer Registration Statement or any other Offer Document, then CombiMatrix shall promptly inform Invitae thereof and shall cooperate fully with Invitae in filing such amendment or supplement with the SEC and, if appropriate, in mailing such amendment or supplement to the holders of the CombiMatrix Series F Warrants.

- (c) Prior to the Effective Time, Invitae shall use commercially reasonable efforts to obtain all regulatory approvals needed to ensure that the Invitae Common Stock to be issued in the Merger or the Warrant Exchange Offer (to the extent required) shall be registered or qualified or exempt from registration or qualification under the securities law of every applicable jurisdiction of the United States; *provided*, *however*, that Invitae shall not be required: (i) to qualify to do business as a foreign corporation in any jurisdiction in which it is not now qualified; or (ii) to file a general consent to service of process in any jurisdiction.
- (d) CombiMatrix shall reasonably cooperate with Invitae and provide, and require its Representatives, advisors, accountants and attorneys to provide, Invitae and its Representatives, advisors, accountants and attorneys, with all true, correct and complete information regarding CombiMatrix that is required to be included in any Registration Statement or reasonably requested from CombiMatrix to be included in any Registration Statement. Without limiting the foregoing, CombiMatrix shall use commercially reasonable efforts to cause to be delivered to Invitae a consent of, and to the extent reasonably requested by Invitae s independent accounting firm a letter confirming certain CombiMatrix financial information from, CombiMatrix s independent accounting firm, dated no more than two (2) Business Days before the date(s) on which, as applicable, the Form S-4 Merger Registration Statement or the Form S-4 Warrant Exchange Offer Registration Statement becomes effective (and reasonably satisfactory in form and substance to Invitae), that are customary in scope and substance for such consents and letters delivered by independent public accountants in connection with registration statements similar to the Registration Statements.

## 5.2 CombiMatrix Stockholders Meeting.

(a) CombiMatrix shall take all action necessary under applicable Legal Requirements to call, give notice of and hold a meeting of the holders of CombiMatrix Common Stock to vote on the Merger Proposal and, if required in accordance with Section 14A of the Exchange Act and the applicable SEC rules issued thereunder, seek a non-binding, advisory vote of the CombiMatrix stockholders to approve certain compensation that may become payable to CombiMatrix s named executive officers in connection with the completion of the Merger (such meeting, the *CombiMatrix Stockholders Meeting*). The CombiMatrix Stockholders Meeting shall be held as promptly as practicable after the

Form S-4 Merger Registration Statement is declared effective under the Securities Act. CombiMatrix shall take reasonable measures to ensure that all proxies solicited in connection with the CombiMatrix Stockholders Meeting are solicited in compliance with all applicable Legal Requirements.

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- (b) CombiMatrix agrees that, subject to Section 5.2(c): (i) CombiMatrix s Board of Directors shall recommend that the holders of CombiMatrix Capital Stock vote to adopt and approve the Merger Proposal and shall use commercially reasonable efforts to solicit such approval within the timeframe set forth in Section 5.2(a) above, (ii) the Proxy Statement/Prospectus shall include a statement to the effect that the CombiMatrix Board of Directors has determined that the Merger is advisable and fair to, and in the best interests of, CombiMatrix and its stockholders, has deemed advisable and approved this Agreement, the Merger and the other actions contemplated by this Agreement, and recommends that CombiMatrix s stockholders vote to adopt and approve the Merger Proposal (the CombiMatrix Board Recommendation ); and (iii) the CombiMatrix Board Recommendation shall not be withdrawn or modified in a manner adverse to Invitae, and no resolution by the CombiMatrix Board of Directors or any committee thereof to withdraw or modify the CombiMatrix Board Recommendation in a manner adverse to Invitae, shall be adopted or proposed.
- (c) Notwithstanding anything to the contrary contained in Section 5.2(b), at any time prior to the Merger Proposal having been adopted and approved at the CombiMatrix Stockholders Meeting (or any adjournment or postponement thereof) by the Required CombiMatrix Stockholder Vote, CombiMatrix s Board of Directors may withhold, amend, withdraw or modify the CombiMatrix Board Recommendation in a manner adverse to Invitae or recommend any Acquisition Transaction (collectively a *CombiMatrix Board Adverse Recommendation Change*) if, but only if, CombiMatrix s Board of Directors determines in good faith, based on such matters as it deems relevant following consultation with its outside legal counsel, that the failure to withhold, amend, withdraw or modify such recommendation would result in a breach of its fiduciary duties under applicable Legal Requirements; *provided*, that Invitae receives written notice from CombiMatrix confirming that CombiMatrix s Board of Directors intends to change its recommendation at least five (5) Business Days in advance of the CombiMatrix Board Recommendation being withdrawn, withheld, amended or modified in a manner adverse to Invitae. Such notice shall describe in reasonable details the reasons for such intention and, if such reasons are related to a Superior Offer, then also specifying the material terms and conditions of such Superior Offer, including the identity of the Person making such offer (and attaching the most current and complete version of any written agreement or other document relating thereto).
- (d) CombiMatrix s obligation to call, give notice of and hold the CombiMatrix Stockholders Meeting in accordance with Section 5.2(a) shall not be limited or otherwise affected by the commencement, disclosure, announcement or submission of any Superior Offer or Acquisition Proposal, or by any withdrawal or modification of the CombiMatrix Board Recommendation.
- (e) Nothing contained in this Agreement shall prohibit CombiMatrix or its Board of Directors from (i) taking and disclosing to the stockholders of CombiMatrix a position as contemplated by Rule 14e-2(a) under the Exchange Act or complying with the provisions of Rule 14d-9 under the Exchange Act (other than Rule 14d-9(f) under the Exchange Act), (ii) making any disclosure to the stockholders of CombiMatrix if the CombiMatrix Board of Directors determines in good faith, after consultation with its outside legal counsel, that the failure to make such disclosure would be inconsistent with its fiduciary duties to the stockholders of CombiMatrix under applicable Legal Requirements, and (iii) making a stop, look and listen communication to the stockholders of CombiMatrix pursuant to Rule 14d-9(f) under the Exchange Act, provided, however, that (A) in the case of each of the foregoing clauses (i) and (ii), any such disclosure or public statement shall be deemed to be a CombiMatrix Board Adverse Recommendation Change subject to the terms and conditions of this Agreement unless CombiMatrix s Board of Directors reaffirms the CombiMatrix Board Recommendation in such disclosure or public statement or within three (3) Business Days of such disclosure or public statement; (B) in the case of clause (iii), any such disclosure or public statement shall be deemed to be a CombiMatrix Board Adverse Recommendation Change subject to the terms and conditions of this Agreement unless the CombiMatrix Board of Directors reaffirms the CombiMatrix Board Recommendation in such disclosure or public statement or within five (5) Business Days of such disclosure or public statement; and (C) CombiMatrix shall not affect a CombiMatrix Board Adverse Recommendation Change unless specifically

permitted pursuant to the terms of <u>Section 5.2(c)</u>.

**5.3 Regulatory Approvals**. Each Party shall use commercially reasonable efforts to file or otherwise submit, as soon as practicable after the date of this Agreement, all applications, notices, reports and other

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documents reasonably required to be filed by such Party with or otherwise submitted by such Party to any Governmental Body with respect to the Merger and the other Contemplated Transactions, and to submit promptly any additional information requested by any such Governmental Body. Without limiting the generality of the foregoing, the Parties shall, promptly after the date of this Agreement, prepare and file, if any, (a) the notification and report forms required to be filed under the HSR Act and (b) any notification or other document required to be filed in connection with the Merger and the Warrant Exchange Offer under any applicable foreign Legal Requirement relating to antitrust or competition matters. CombiMatrix and Invitae shall respond as promptly as is practicable to respond in compliance with: (i) any inquiries or requests received from the Federal Trade Commission or the Department of Justice for additional information or documentation; and (ii) any inquiries or requests received from any state attorney general, foreign antitrust or competition authority or other Governmental Body in connection with antitrust or competition matters.

## 5.4 Warrants, RSUs and CombiMatrix Options.

- (a) At the Effective Time, (i) each in-the-money CombiMatrix Option outstanding and unexercised immediately prior to the Effective Time, whether or not vested or exercisable, shall become immediately vested as of the Effective Time and converted into the number of shares of unrestricted Invitae Common Stock calculated pursuant to Section 1.5(a)(ii)(4) ( Converted CombiMatrix Options ), and (ii) each out-of-the-money CombiMatrix Option outstanding and unexercised immediately prior to the Effective Time, whether or not vested or exercisable, shall be cancelled and terminated as of the Effective Time for no consideration (the Terminated CombiMatrix Options ). From and after the date of this Agreement, no further awards will be made under the 2006 Plan or the CombiMatrix Molecular Diagnostics 2005 Stock Award Plan (the CMDX 2005 Plan ) adopted by CombiMatrix s wholly owned subsidiary, CombiMatrix Molecular Diagnostics, Inc. ( CMDX ). Prior to the Effective Time, the CombiMatrix Board of Directors will adopt appropriate resolutions (which draft resolutions shall be provided to Invitae for reasonable review and approval by Invitae prior to adoption by the CombiMatrix Board of Directors) and will have taken all other actions necessary and appropriate (under the 2006 Plan, the CombiMatrix Options and otherwise) to effectuate the provisions of this Section 5.4(a), including to ensure that (x) as of the Effective Time each Converted CombiMatrix Option shall become immediately vested as of the Effective Time and converted into the number of shares of unrestricted Invitae Common Stock calculated pursuant to Section 1.5(a)(ii)(4) and (y) from and after the Effective Time holders of Terminated CombiMatrix Options have no rights with respect thereto and all Terminated CombiMatrix Options shall have been cancelled.
- (b) Immediately after announcement of the Merger, CombiMatrix shall repurchase half of the outstanding and unexercised CombiMatrix Series A Warrants, CombiMatrix Series B Warrants, CombiMatrix Series C Warrants, CombiMatrix Series E Warrants and CombiMatrix PIPE Warrants, and upon the Closing, CombiMatrix shall repurchase the remainder of the outstanding and unexercised CombiMatrix Series A Warrants, CombiMatrix Series B Warrants, CombiMatrix Series C Warrants, CombiMatrix Series E Warrants and CombiMatrix PIPE Warrants, all pursuant to the terms of that certain CombiMatrix Common Stock Purchase Warrants Repurchase Agreement dated July 11, 2016 (collectively, the *CombiMatrix Warrant Repurchase*). CombiMatrix will have taken all other actions necessary and appropriate under each such warrant series to effectuate the CombiMatrix Warrant Repurchase and the provisions of this Section 5.4(b) and to ensure that, from and after the Effective Time, holders of CombiMatrix Series A Warrants, CombiMatrix Series B Warrants, CombiMatrix Series C Warrants, CombiMatrix Series E Warrants and CombiMatrix PIPE Warrants have no rights with respect thereto and such warrants have been cancelled.
- (c) At the Effective Time, all CombiMatrix Series D Warrants and CombiMatrix Series F Warrants that are outstanding and unexercised at the Effective Time (i.e., to the extent not exchanged in the Warrant Exchange Offer, as to the CombiMatrix Series F Warrants, or exercised prior to consummation of the Merger) shall be converted into and become warrants to purchase Invitae Common Stock, and Invitae shall assume each such CombiMatrix Series D

Warrant and CombiMatrix Series F Warrant in accordance with its terms. All rights with respect to CombiMatrix Common Stock under CombiMatrix Series D Warrants and CombiMatrix Series F Warrants assumed by Invitae shall thereupon be converted into rights with respect to Invitae Common Stock. Accordingly, from and after the Effective Time: (i) each CombiMatrix Series D Warrant and CombiMatrix Series

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F Warrant assumed by Invitae may be exercised solely for shares of Invitae Common Stock; (ii) the number of shares of Invitae Common Stock subject to each CombiMatrix Series D Warrant and CombiMatrix Series F Warrant assumed by Invitae shall be determined by multiplying (A) the number of shares of CombiMatrix Common Stock that were subject to such CombiMatrix Series D Warrant or CombiMatrix Series F Warrant immediately prior to the Effective Time by (B) the Exchange Ratio; (iii) the per share exercise price for the Invitae Common Stock issuable upon exercise of each CombiMatrix Series D Warrant or CombiMatrix Series F Warrant assumed by Invitae shall be determined by dividing the per share exercise price of CombiMatrix Common Stock subject to such CombiMatrix Series D Warrant or CombiMatrix Series F Warrant, as in effect immediately prior to the Effective Time, by the Exchange Ratio; and (iv) any restriction on any CombiMatrix Series D Warrant or CombiMatrix Series F Warrant assumed by Invitae shall continue in full force and effect, and the term and other provisions of such CombiMatrix Series D Warrant or CombiMatrix Series F Warrant shall otherwise remain unchanged.

(d) Prior to the Effective Time, CombiMatrix shall take all actions that may be necessary (under the 2006 Plan, the Converted CombiMatrix Options, the Terminated CombiMatrix Options, the CombiMatrix RSUs, the CombiMatrix Warrants and otherwise) to effectuate the provisions of this <u>Section 5.4</u> and to ensure that, from and after the Effective Time, holders of Converted CombiMatrix Options, Terminated CombiMatrix Options, CombiMatrix RSUs and CombiMatrix Warrants have no rights with respect thereto other than those specifically provided in this <u>Section 5.4</u> or, as applicable, <u>Section 1.5</u>.

## **5.5** Employee Benefits.

- (a) Effective no later than the day immediately preceding the Closing Date, CombiMatrix shall terminate (i) all CombiMatrix Employee Plans that are employee benefit plans within the meaning of ERISA, including any CombiMatrix Employee Plans intended to include a Code Section 401(k) arrangement (each, a *CombiMatrix 401(k) Plan*), and (ii) each other CombiMatrix Employee Plan set forth on Schedule 5.5 unless written notice is provided by Invitae to CombiMatrix no later than three (3) calendar days prior to the Closing Date, instructing CombiMatrix not to terminate any such CombiMatrix Employee Plan. CombiMatrix shall provide Invitae with evidence that such CombiMatrix Employee Plan(s) have been terminated (effective no later than the day immediately preceding the Closing Date) pursuant to resolutions of the CombiMatrix Board of Directors. The form and substance of such resolutions shall be subject to review and approval of Invitae. CombiMatrix also shall take such other actions in furtherance of terminating such CombiMatrix Employee Plan(s) as Invitae may reasonably require. In the event that termination of any CombiMatrix 401(k) Plan would reasonably be anticipated to trigger liquidation charges, surrender charges or other fees, then CombiMatrix shall take such actions as are necessary to reasonably estimate the amount of such charges and/or fees and provide such estimate in writing to Invitae no later than fourteen (14) calendar days prior to the Closing Date.
- (b) Without limiting the provisions of Section 10.7, Invitae shall exercise commercially reasonable efforts to cause its employee benefit plan intended to include a Code Section 401(k) arrangement (an *Invitae 401(k) Plan*) to (i) effective on the Closing Date, add CombiMatrix to the Invitae 401(k) Plan as a participating employer, (ii) accept, in accordance with applicable law, a direct rollover (within the meaning of Section 401(a)(31) of the Code) of the account balances (including earnings thereon through the date of transfer and any promissory notes evidencing outstanding loans) of each CombiMatrix employee under the CombiMatrix 401(k) Plan if such employee continues to be employed by CombiMatrix (or Invitae) through the Closing Date and if such rollover to the Invitae 401(k) Plan is elected in accordance with applicable law by such CombiMatrix employee and (iii) waive all limitations as to eligibility waiting periods with respect to participation applicable under such Invitae 401(k) Plan for CombiMatrix employees continuing to be employed by CombiMatrix (or Invitae) through the Closing Date.

### 5.6 Indemnification of Officers and Directors.

(a) From the Effective Time through the sixth ( $6^{th}$ ) anniversary of the date on which the Effective Time occurs, the Surviving Corporation shall indemnify and hold harmless each person who is now, or has been at any time prior to the date of this Agreement, or who becomes prior to the Effective Time, a director or officer of

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CombiMatrix (the *D&O Indemnified Parties*), against all claims, losses, liabilities, damages, judgments, fines and reasonable fees, costs and expenses, including attorneys fees and disbursements incurred in connection with any claim, action, suit, proceeding or investigation, whether civil, criminal, administrative or investigative, arising out of or pertaining to the fact that the D&O Indemnified Party is or was a director or officer of CombiMatrix, whether asserted or claimed prior to, at or after the Effective Time, to the fullest extent permitted under the DGCL for directors or officers of Delaware corporations. Each D&O Indemnified Party will be entitled to advancement of expenses incurred in the defense of any such claim, action, suit, proceeding or investigation from the Surviving Corporation upon receipt by the Surviving Corporation from the D&O Indemnified Party of a request therefor; *provided*, that any person to whom expenses are advanced provides an undertaking, to the extent then required by the DGCL, as applicable, to repay such advances if it is ultimately determined that such person is not entitled to indemnification.

- (b) The Certificate of Incorporation and Bylaws of the Surviving Corporation shall contain, and Invitae shall cause the Certificate of Incorporation and Bylaws of the Surviving Corporation to so contain, provisions no less favorable with respect to indemnification, advancement of expenses and exculpation of present and former directors and officers of CombiMatrix than are presently set forth in the Certificate of Incorporation and Bylaws of CombiMatrix, which provisions shall not be amended, modified or repealed for a period of six years—time from the Effective Time in a manner that would adversely affect the rights thereunder of individuals who, at or prior to the Effective Time, were officers or directors of CombiMatrix.
- (c) CombiMatrix shall, prior to the Closing, purchase an insurance policy with an effective date as of the Closing which maintains in effect for six years from the Closing the current directors and officers liability insurance policies maintained by CombiMatrix.
- (d) The Surviving Corporation shall pay all expenses, including reasonable attorneys fees, that may be incurred by the persons referred to in this Section 5.6 in connection with their enforcement of their rights provided in this Section 5.6.
- (e) The provisions of this <u>Section 5.6</u> are intended to be in addition to the rights otherwise available to the current and former officers and directors of CombiMatrix by law, charter, statute, bylaw or agreement, and shall operate for the benefit of, and shall be enforceable by, each of the D&O Indemnified Parties, their heirs and their representatives.
- (f) In the event the Surviving Corporation or any of its successors or assigns (i) consolidates with or merges into any other person and shall not be the continuing or surviving corporation or entity of such consolidation or merger, (ii) transfers all or substantially all of its properties and assets to any person, or (iii) dissolves, then, and in each such case, proper provision shall be made so that the successors and assigns of the Surviving Corporation (or Invitae, in the case of dissolution) shall succeed to the obligations set forth in this Section 5.6.
- **5.7 Additional Agreements.** The Parties shall use commercially reasonable efforts to cause to be taken all actions necessary to consummate the Merger and make effective the other Contemplated Transactions. Without limiting the generality of the foregoing, each Party: (i) shall make all Filings (if any) and give all notices (if any) required to be made and given by such Party in connection with the Merger and the other Contemplated Transactions; (ii) shall use commercially reasonable efforts to obtain each Consent (if any) reasonably required to be obtained pursuant to any applicable Legal Requirement, Contract or otherwise by such Party in connection with the Merger or any of the other Contemplated Transactions or for any such Contract to remain in full force and effect (including, in the case of Invitae, the Oxford Consent); (iii) shall use commercially reasonable efforts to lift any injunction prohibiting, or any other legal bar to, the Merger or any of the other Contemplated Transactions; and (iv) shall use commercially reasonable efforts to satisfy the conditions precedent to the obligations of CombiMatrix, in the case of Invitae and Merger Sub, or Invitae and Merger Sub, in the case of CombiMatrix, to effect the Merger and otherwise consummate the Contemplated Transactions.

**5.8 Disclosure**. Without limiting any of either Party shall not, and shall not permit any of its Subsidiaries or any Representative of such Party to, issue any

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press release or make any disclosure (to any customers or employees of such Party, to the public or otherwise) regarding the Merger or any of the other Contemplated Transactions unless: (a) the other Parties shall have approved such press release or disclosure in writing; or (b) such Party shall have determined in good faith, upon the advice of outside legal counsel, that such disclosure is required by applicable Legal Requirements and, to the extent practicable, before such press release or disclosure is issued or made, such Party advises the other Parties of, and consults with the other Parties regarding, the text of such press release or disclosure; *provided*, *however*, that each of CombiMatrix and Invitae may make any public statement in response to specific questions by the press, analysts, investors or those attending industry conferences or financial analyst conference calls, so long as any such statements are consistent with previous press releases, public disclosures or public statements made by CombiMatrix or Invitae in compliance with this Section 5.8.

### 5.9 Tax Matters.

- (a) Invitae, Merger Sub and CombiMatrix shall use their respective commercially reasonable efforts to cause the Merger, together with the Warrant Exchange Offer, to qualify, and agree not to, and not to permit or cause any affiliate or any Subsidiary to, take any actions or cause any action to be taken which would reasonably be expected to prevent the Merger, together with the Warrant Exchange Offer, from qualifying, as a reorganization under Section 368(a) of the Code.
- (b) This Agreement is intended to constitute, and the Parties hereby adopt this Agreement as, a plan of reorganization within the meaning of Section 1.368-2(g) of the Treasury Regulations. The Parties shall treat and shall not take any tax reporting position inconsistent with the treatment of the Merger, together with the Warrant Exchange Offer, as a reorganization within the meaning of Section 368(a) of the Code for U.S. federal, state and other relevant Tax purposes, unless otherwise required pursuant to a determination within the meaning of Section 1313(a) of the Code.
- (c) CombiMatrix shall deliver to Stradling and Pillsbury a Tax Representation Letter, dated as of the date of the tax opinions referenced in Section 5.1(a) and signed by an officer of CombiMatrix, containing representations of CombiMatrix, and Invitae shall deliver to Pillsbury and Stradling a Tax Representation Letter, dated as of the date of the tax opinions referenced in Section 5.1(a) and signed by an officer of Invitae, containing representations of Invitae, in each case as shall be reasonably necessary or appropriate to enable Stradling and Pillsbury to render the applicable opinions described in Sections 5.1(a) and 5.1(b) of this Agreement.
- **5.10 Securityholder Litigation**. CombiMatrix shall give Invitae the opportunity to participate, subject to a customary joint defense agreement, in the defense or settlement of any litigation (including litigation brought by stockholders or securityholders of CombiMatrix) against CombiMatrix and/or its directors relating to the Contemplated Transactions, and CombiMatrix shall not settle or compromise any litigation arising or resulting from the Contemplated Transactions without Invitae s prior consent, which consent shall not be unreasonably withheld, conditioned or delayed.
- **5.11 Legends**. Invitae shall be entitled to place appropriate legends on the certificates evidencing any shares of Invitae Common Stock to be received in the Merger by equityholders of CombiMatrix who may be considered Affiliates of Invitae for purposes of Rules 144 and 145 under the Securities Act reflecting the restrictions set forth in Rules 144 and 145 and to issue appropriate stop transfer instructions to the transfer agent for Invitae Common Stock.
- **5.12** Cooperation. Each Party shall cooperate reasonably with the other Party and shall provide the other Party with such assistance as may be reasonably requested for the purpose of facilitating the performance by each Party of its respective obligations under this Agreement and to enable the combined entity to continue to meet its obligations following the Closing.

**5.13 Directors and Officers**. CombiMatrix shall obtain and deliver to Invitae at or prior to the Effective Time the resignation of each officer and director of CombiMatrix who is not continuing, at the sole discretion of Invitae, as an officer or director of the Surviving Corporation following the Effective Time.

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- **5.14 Section 16 Matters**. Prior to the Effective Time, Invitae shall take all such steps as may be required to cause any acquisitions of Invitae Common Stock resulting from the Merger and the other actions contemplated by this Agreement, by each individual who is reasonably expected to become subject to the reporting requirements of Section 16(a) of the Exchange Act with respect to Invitae, to be exempt under Rule 16b-3 promulgated under the Exchange Act.
- **5.15 CombiMatrix Transaction Bonus Payout Agreements.** Bonus payments under the CombiMatrix Transaction Bonus Plan shall be paid in cash to all participants in accordance with the terms of the CombiMatrix Transaction Bonus Plan, other than the executive officers, the Vice President of Billing & Reimbursement and the directors of CombiMatrix. Pursuant to the CombiMatrix Transaction Bonus Payout Agreements entered into with each of the executive officers and the Vice President of Billing & Reimbursement of CombiMatrix concurrently with the execution of this Agreement, the bonus payments for each such executive officer and Vice President of Billing & Reimbursement shall be paid in RSUs of Invitae (to be settled in shares of Invitae Common Stock) calculated using the Invitae Trailing Average Share Value and subject to time-based vesting with acceleration upon a change in control of Invitae and/or certain other events as set forth in the applicable CombiMatrix Transaction Bonus Payout Agreement. Pursuant to the CombiMatrix Transaction Bonus Payout Agreements entered into with each of the outside directors of CombiMatrix concurrently with the execution of this Agreement, the bonus payments for each such director shall be paid in unrestricted shares of Invitae Common Stock calculated using the Invitae Trailing Average Share Value.
- **5.16** Allocation Certificate. CombiMatrix shall prepare and deliver to Invitae at least two (2) Business Days prior to the Closing Date a certificate signed by the Chief Financial Officer and the Chief Executive Officer of CombiMatrix, in a form reasonably acceptable to Invitae, which sets forth a true and complete list, as of immediately prior to the Effective Time, of the following (the Allocation Certificate): (i) the record holders of CombiMatrix Common Stock, CombiMatrix RSUs, CombiMatrix Series F Preferred Stock, CombiMatrix Series D Warrants and CombiMatrix Series F Warrants; (ii) the number of shares of CombiMatrix Common Stock owned and/or underlying the CombiMatrix RSUs, CombiMatrix Series F Preferred Stock, CombiMatrix Series D Warrants and CombiMatrix Series F Warrants held by such record holders; (iii) the exercise price for each such CombiMatrix Series D Warrant and CombiMatrix Series F Warrant and the conversion price for the CombiMatrix Series F Preferred Stock; (iv) the number of shares of Invitae Common Stock each record holder of CombiMatrix Common Stock, CombiMatrix RSUs, or CombiMatrix Series F Preferred Stock is entitled to receive as a result of application of the Exchange Ratio; (v) the number of shares of Invitae Common Stock that will be issuable upon the exercise of CombiMatrix Series D Warrants and CombiMatrix Series F Warrants (to the extent not tendered for exchange or exercised prior to the Closing Date) by the record holders thereof as a result of application of the Exchange Ratio; (vi) confirmation of the pending CombiMatrix Warrant Repurchase, including the pay-out details with respect to the holders of the CombiMatrix Warrants at issue; and (vii) the holders of the outstanding CombiMatrix Options, together with confirmation of the pending conversion of the in-the-money CombiMatrix Options pursuant to Sections 5.4(a) and 1.5(a)(ii)(4) and the termination of the out-of-the-money CombiMatrix Options pursuant to Section 5.4(a).
- **5.17 Disclosure of Liabilities**. For purposes of the computation of Net Cash pursuant to <u>Section 1.6</u>, on or prior to the Determination Date, CombiMatrix shall provide Invitae with a list of all Liabilities of CombiMatrix as of the Determination Date as well as projected through the Anticipated Closing Date which are individually in excess of \$25,000 or in excess of \$25,000 in the aggregate, that had not previously been disclosed to Invitae in the CombiMatrix Disclosure Schedules.
- **5.18 Takeover Statutes**. If any control share acquisition, fair price, moratorium or other anti-takeover Legal Requirement becomes or is deemed to applicable to Invitae, CombiMatrix, Merger Sub, or the Contemplated Transactions, then each of Invitae, CombiMatrix, Merger Sub, and their respective board of directors shall grant such

approvals and take such actions as are necessary so that the Merger and the other Contemplated Transactions may be consummated as promptly as practicable on the terms contemplated hereby and otherwise act to render such anti-takeover Legal Requirement inapplicable to the foregoing.

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### Section 6. CONDITIONS PRECEDENT TO OBLIGATIONS OF EACH PARTY

The obligations of each Party to effect the Merger and otherwise consummate the transactions to be consummated at the Closing are subject to the satisfaction or, to the extent permitted by applicable law, the written waiver by each of the Parties, at or prior to the Closing, of each of the following conditions:

- **6.1 Effectiveness of Registration Statements**. Each Registration Statement shall have become effective in accordance with the provisions of the Securities Act, and shall not be subject to any stop order or proceeding (or threatened proceeding by the SEC) seeking a stop order with respect to such Registration Statement.
- **6.2 No Restraints**. No temporary restraining order, preliminary or permanent injunction or other order preventing the consummation of the Merger or the Warrant Exchange Offer shall have been issued by any court of competent jurisdiction or other Governmental Body of competent jurisdiction and remain in effect, and there shall not be any Legal Requirement which has the effect of making the consummation of the Merger or the Warrant Exchange Offer illegal.
- **6.3 Stockholder Approval**. The Merger Proposal shall have been duly adopted and approved by the Required CombiMatrix Stockholder Vote.
- **6.4 Regulatory Matters**. Any waiting period applicable to the consummation of the Merger and the Warrant Exchange Offer under the HSR Act shall have expired or been terminated, and there shall not be in effect any voluntary agreement between Invitae, Merger Sub and/or CombiMatrix, on the one hand, and the Federal Trade Commission, the Department of Justice or any foreign Governmental Body, on the other hand, pursuant to which such Party has agreed not to consummate the Merger or the Warrant Exchange Offer for any period of time; *provided*, that neither CombiMatrix, on the one hand, nor Invitae or Merger Sub, on the other hand, shall enter into any such voluntary agreement without the written consent of all Parties.
- 6.5 No Governmental Proceedings Relating to Contemplated Transactions or Right to Operate Business. There shall not be any Legal Proceeding pending, or overtly threatened in writing by an official of a Governmental Body in which such Governmental Body indicates that it intends to conduct any Legal Proceeding or take any other action: (a) challenging or seeking to restrain or prohibit the consummation of the Merger, the Warrant Exchange Offer or any of the other Contemplated Transactions; (b) relating to the Merger, the Warrant Exchange Offer or any of the other Contemplated Transactions and seeking to obtain from Invitae, Merger Sub or CombiMatrix any damages or other relief that may be material to Invitae or CombiMatrix; (c) seeking to prohibit or limit in any material and adverse respect the ability to vote, transfer, receive dividends with respect to or otherwise exercise ownership rights with respect to any Invitae Common Stock to be issued in the Merger or the Warrant Exchange Offer; (d) that would materially and adversely affect the right or ability of Invitae or CombiMatrix, respectively, to own the assets or operate the business of Invitae or CombiMatrix (including, from and after the Merger, with CombiMatrix as a subsidiary of Invitae); or (e) seeking to compel CombiMatrix or Invitae (or any of their respective Subsidiaries) to dispose of or hold separate any material assets as a result of the Merger, the Warrant Exchange Offer or any of the other Contemplated Transactions.

**6.6 Listing**. The shares of Invitae Common Stock to be issued in the Merger and the Warrant Exchange Offer shall be approved for listing on the NYSE as of the Effective Time.

# Section 7. ADDITIONAL CONDITIONS PRECEDENT TO OBLIGATIONS OF INVITAE AND MERGER SUB

The obligations of Invitae and Merger Sub to effect the Merger and otherwise consummate the transactions to be consummated at the Closing are subject to the satisfaction or the written waiver by Invitae, at or prior to the Closing, of each of the following conditions:

**7.1 Accuracy of Representations**. The representations and warranties of CombiMatrix in <u>Sections 2.1</u>, <u>2.2</u>, <u>2.3</u>, <u>2.4</u>, <u>2.11</u>, <u>2.17</u>, <u>2.19</u>, <u>2.20</u> and <u>2.23</u> are true and correct in all material respects as of the date of this

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Agreement and are true and correct in all material respects on and as of the Closing Date with the same force and effect as if made on the Closing Date, except for those representations and warranties which address matters only as of a particular date (which representations were so true and correct as of such particular date); and (b) all other representations and warranties of CombiMatrix in Section 2 are true and correct as of the date of this Agreement and are true and correct on and as of the Closing Date with the same force and effect as if made on the Closing Date except (with respect solely to this clause (b)) (i) in each case, or in the aggregate, where the failure to be true and correct would not have a CombiMatrix Material Adverse Effect (provided that all CombiMatrix Material Adverse Effect qualifications and other materiality qualifications limiting the scope of the representations and warranties of CombiMatrix in Section 2 will be disregarded), or (ii) for those representations and warranties which address matters only as of a particular date (which representations were so true and correct, subject to the qualifications as set forth in the preceding clause (i), as of such particular date). It is understood that, for purposes of determining the accuracy of any such representations and warranties, any update of or modification to the CombiMatrix Disclosure Schedule made or purported to have been made after the date of this Agreement shall be disregarded.

- **7.2 Performance of Covenants**. Each of the covenants and obligations in this Agreement that CombiMatrix is required to comply with or to perform at or prior to the Closing shall have been complied with and performed by CombiMatrix in all material respects.
- **7.3 No CombiMatrix Material Adverse Effect**. Since the date of this Agreement, there shall not have occurred any CombiMatrix Material Adverse Effect that is continuing.
- **7.4 Warrant Exchange Offer**. The Warrant Exchange Offer shall have been consummated (or shall be in the process of being consummated substantially simultaneous with the Closing), and the Minimum Warrant Exchange Participation shall have been met (or shall be assured of being met assuming the Warrant Exchange Offer is consummated substantially simultaneous with the Closing); *provided*, *however*, that Invitae has offered shares of Invitae Common Stock with a value (based on the Invitae Trailing Average Share Value) of at least \$2.90 (rounded to the nearest cent) per CombiMatrix Series F Warrant in the Warrant Exchange Offer.
- **7.5** CombiMatrix Warrant Repurchase. CombiMatrix shall have effected the CombiMatrix Warrant Repurchase.
- **7.6 CombiMatrix Transaction Bonus Payout Agreements**. The CombiMatrix Transaction Bonus Payout Agreements entered into concurrently with this Agreement by and among CombiMatrix, Invitae and each of the participants in the CombiMatrix Transaction Bonus Plan remain in full force and effect.
- **7.7 Consulting Agreements**. Consulting agreements with each of Mark McDonough (CombiMatrix s President and Chief Executive Officer) and Scott Burell (CombiMatrix s Chief Financial Officer), acceptable in each instance to the applicable individual and Invitae, shall have been executed, with such agreements to commence effectiveness immediately upon the Effective Time.
- **7.8** Credit Facility Waiver or Consent. Invitae shall have received any Consent required pursuant to the terms of that certain Loan and Security Agreement dated as of March 15, 2017 between Oxford Capital, LLC and Invitae (as it may be amended from time to time) such that none of the Merger, the Warrant Exchange Offer nor any of the other Contemplated Transactions shall cause or represent a breach of event of default thereunder (the *Oxford Consent*).
- **7.9 Agreements and Other Documents**. Invitae shall have received the following agreements and other documents, each of which shall be in full force and effect:

(a) a certificate executed by the Chief Executive Officer and Chief Financial Officer of CombiMatrix confirming that the conditions set forth in <u>Sections 7.1</u>, <u>7.2</u>, <u>7.3</u>, <u>7.5</u> and <u>7.6</u> have been duly satisfied;

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- (b) certificates of good standing (or equivalent documentation) of CombiMatrix and each CombiMatrix Subsidiary in its jurisdiction of organization and the various foreign jurisdictions in which it is qualified, certified charter documents of CombiMatrix and each CombiMatrix Subsidiary, and a certificate as to the incumbency of officers and the adoption of resolutions of the CombiMatrix Board of Directors authorizing the execution of this Agreement and the consummation of the Contemplated Transactions;
- (c) written resignations in forms satisfactory to Invitae, dated as of the Closing Date and effective as of the Closing, executed by the officers and directors of CombiMatrix who will not be officers or directors of the Surviving Corporation pursuant to Section 5.13;
- (d) the Allocation Certificate; and
- (e) a form of FIRPTA certificate to the Internal Revenue Service in accordance with the requirements of Treasury Regulation Section 1.897-2(h), and in form and substance reasonably acceptable to Invitae, along with written authorization for Invitae to deliver such notice form to the Internal Revenue Service on behalf of CombiMatrix upon the Closing.

### Section 8. ADDITIONAL CONDITIONS PRECEDENT TO OBLIGATION OF COMBIMATRIX

The obligations of CombiMatrix to effect the Merger and otherwise consummate the transactions to be consummated at the Closing are subject to the satisfaction or the written wavier by CombiMatrix, at or prior to the Closing, of each of the following conditions:

- **8.1 Accuracy of Representations**. The representations and warranties of Invitae and Merger Sub in Sections 3.1, 3.2, 3.3, 3.4, 3.7 and 3.8 are true and correct in all material respects as of the date of this Agreement and are true and correct in all material respects on and as of the Closing Date with the same force and effect as if made on the Closing Date, except for those representations and warranties which address matters only as of a particular date (which representations were so true and correct as of such particular date); and (b) all other representations and warranties of Invitae and Merger Sub in Section 3 are true and correct as of the date of this Agreement and are true and correct on and as of the Closing Date with the same force and effect as if made on the Closing Date except (with respect solely to this clause (b)) (i) in each case, or in the aggregate, where the failure to be true and correct would not have an Invitae Material Adverse Effect (provided that all Invitae Material Adverse Effect qualifications and other materiality qualifications limiting the scope of the representations and warranties of Invitae and Merger Sub in Section 3 will be disregarded), or (ii) for those representations and warranties which address matters only as of a particular date (which representations were so true and correct, subject to the qualifications as set forth in the preceding clause (i), as of such particular date). It is understood that, for purposes of determining the accuracy of any such representations and warranties, any update of or modification to the Invitae Disclosure Schedule made or purported to have been made after the date of this Agreement shall be disregarded.
- **8.2 Performance of Covenants**. All of the covenants and obligations in this Agreement that either Invitae or Merger Sub is required to comply with or to perform at or prior to the Closing shall have been complied with and performed in all material respects.
- **8.3 No Invitae Material Adverse Effect.** Since the date of this Agreement, there shall not have occurred any Invitae Material Adverse Effect that is continuing.
- **8.4 Certificate**. CombiMatrix shall have received a certificate executed by the Chief Executive Officer and Chief Financial Officer of Invitae confirming that the conditions set forth in Sections 8.1, 8.2 and 8.3 have been duly

satisfied.

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### **Section 9. TERMINATION**

- **9.1 Termination**. This Agreement may be terminated prior to the Effective Time (whether before or after adoption and approval of the Merger Proposal by CombiMatrix s stockholders, unless otherwise specified below):
- (a) by mutual written consent duly authorized by the Boards of Directors of Invitae and CombiMatrix;
- (b) by either Invitae or CombiMatrix if the Merger shall not have been consummated by January 31, 2018 (subject to possible extension as provided in this Section 9.1(b), the End Date ); provided, however, that the right to terminate this Agreement under this Section 9.1(b) shall not be available to CombiMatrix, on the one hand, or to Invitae and Merger Sub, on the other hand, if such Party s action or failure to act has been a principal cause of the failure of the Merger to occur on or before the End Date and such action or failure to act constitutes a breach of this Agreement; and provided, further, that, in the event the waiting period under the HSR Act has not expired or a request for additional information has been made by any Governmental Authority, or in the event that the SEC has not declared effective under the Securities Act either Registration Statement by the date which is sixty (60) days prior to the End Date, then either CombiMatrix or Invitae shall be entitled to extend the End Date for an additional sixty (60) days;
- (c) by either Invitae or CombiMatrix if a court of competent jurisdiction or other Governmental Body shall have issued a final and nonappealable order, decree or ruling, or shall have taken any other action, having the effect of permanently restraining, enjoining or otherwise prohibiting the Merger;
- (d) by either Invitae or CombiMatrix if (i) the CombiMatrix Stockholders Meeting (including any adjournments and postponements thereof) shall have been held and completed and CombiMatrix s stockholders shall have taken a final vote on the Merger Proposal and (ii) the Merger Proposal shall not have been approved and adopted at the CombiMatrix Stockholders Meeting (or any adjournment or postponement thereof) by the Required CombiMatrix Stockholder Vote; *provided*, *however*, that the right to terminate this Agreement under this Section 9.1(d) shall not be available to CombiMatrix where the failure to obtain the Required CombiMatrix Stockholder Vote for the Merger Proposal shall have been caused by the action or failure to act of CombiMatrix and such action or failure to act constitutes a material breach by CombiMatrix of this Agreement;
- (e) by Invitae if a CombiMatrix Triggering Event shall have occurred;
- (f) by CombiMatrix, upon a breach of any representation, warranty, covenant or agreement on the part of Invitae or Merger Sub set forth in this Agreement, or if any representation or warranty of Invitae or Merger Sub shall have become inaccurate, in either case such that the conditions set forth in Section 8.1 or Section 8.2 would not be satisfied as of the time of such breach or as of the time such representation or warranty shall have become inaccurate, or if there shall have occurred any Invitae Material Adverse Effect that is continuing such that the condition set forth in Section 8.3 would not be satisfied, provided, that if such inaccuracy in Invitae s or Merger Sub s representations and warranties or breach by Invitae or Merger Sub is curable by Invitae or Merger Sub, or if the Effect(s) constituting the Invitae Material Adverse Effect at issue is/are capable of being ameliorated so as to not constitute an Invitae Material Adverse Effect, then this Agreement shall not terminate pursuant to this Section 9.1(f) as a result of such particular breach or inaccuracy or Invitae Material Adverse Effect until the earlier of (i) the expiration of a thirty (30) day period commencing upon delivery of written notice to Invitae or Merger Sub (as applicable) of such breach or inaccuracy or Invitae Material Adverse Effect and (ii) Invitae or Merger Sub (as applicable) ceasing to exercise commercially reasonable efforts to cure such breach or ameliorate such Invitae Material Adverse Effect (it being understood that this Agreement shall not terminate pursuant to this Section 9.1(f) as a result of such particular breach or inaccuracy or Invitae Material Adverse Effect if such breach by Invitae or Merger Sub is cured or such Invitae Material Adverse Effect is ameliorated prior to such termination becoming effective); or

(g) by Invitae, upon a breach of any representation, warranty, covenant or agreement on the part of CombiMatrix set forth in this Agreement, or if any representation or warranty of CombiMatrix shall have become inaccurate, in either case such that the conditions set forth in Section 7.1 or Section 7.2 would not be satisfied as of the time of such breach or as of the time such representation or warranty shall have become

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inaccurate, or if there shall have occurred any CombiMatrix Material Adverse Effect that is continuing such that the condition set forth in Section 7.3 would not be satisfied, provided, that if such inaccuracy in CombiMatrix s representations and warranties or breach by CombiMatrix is curable by CombiMatrix, or if the Effect(s) constituting the CombiMatrix Material Adverse Effect at issue is/are capable of being ameliorated so as to not constitute a CombiMatrix Material Adverse Effect, then this Agreement shall not terminate pursuant to this Section 9.1(g) as a result of such particular breach or inaccuracy or CombiMatrix Material Adverse Effect until the earlier of (i) the expiration of a thirty (30) day period commencing upon delivery of written notice to CombiMatrix of such breach or inaccuracy or CombiMatrix Material Adverse Effect and (ii) CombiMatrix ceasing to exercise commercially reasonable efforts to cure such breach or ameliorate such CombiMatrix Material Adverse Effect (it being understood that this Agreement shall not terminate pursuant to this Section 9.1(g) as a result of such particular breach or inaccuracy or CombiMatrix Material Adverse Effect if such breach by CombiMatrix is cured or such CombiMatrix Material Adverse Effect is ameliorated prior to such termination becoming effective).

The Party desiring to terminate this Agreement pursuant to this <u>Section 9.1</u> (other than pursuant to <u>Section 9.1(a)</u>) shall give a notice of such termination to the other Party specifying the provisions hereof pursuant to which such termination is made and the basis therefor described in reasonable detail.

**9.2 Effect of Termination**. In the event of the termination of this Agreement as provided in Section 9.1, this Agreement shall be of no further force or effect; *provided*, *however*, that (i) this Section 9.2, Section 9.3 and Section 10 shall survive the termination of this Agreement and shall remain in full force and effect, and (ii) the termination of this Agreement shall not relieve any Party for its fraud or from any liability for any willful and material breach of any representation, warranty, covenant, obligation or other provision contained in this Agreement.

### 9.3 Expenses; Termination Fees.

- (a) Except as set forth in this Section 9.3, all fees and expenses incurred in connection with this Agreement and the Contemplated Transactions (including any attorneys and accountants fees and expenses) shall be paid by the Party incurring such expenses, whether or not the Merger is consummated; *provided*, *however*, that Invitae and CombiMatrix shall share equally all filing fees and expenses, other than attorneys and accountants fees and expenses, incurred in relation to the Filings by the Parties under any Filing requirement under the HSR Act and any foreign antitrust Legal Requirement applicable to this Agreement and the Contemplated Transactions; and *provided*, *further*, that Invitae and CombiMatrix shall also share equally all fees and expenses, other than attorneys and accountants fees and expenses, of the Exchange Agent and in relation to preparation and filing with the SEC of the Registration Statements (including any preliminary materials related thereto and all amendments and supplements thereto, as well as any financial statements and schedules thereto) as well as the printing (*e.g.*, paid to a financial printer) of the Registration Statements and the printing or mailing of the Proxy Statement/Prospectus and the Offer Documents.
- (b) If (i) this Agreement is terminated by Invitae or CombiMatrix pursuant to Section 9.1(d) or by Invitae pursuant to Section 9.1(e), (ii) at any time before the CombiMatrix Stockholders Meeting a bona fide Acquisition Proposal with respect to CombiMatrix shall have been publicly announced or disclosed or, in the event this Agreement is terminated pursuant to Section 9.1(e), otherwise communicated to CombiMatrix s Board of Directors, and (iii) in the event this Agreement is terminated pursuant to Section 9.1(d), within twelve (12) months after the date of such termination, CombiMatrix enters into a definitive agreement with respect to a Subsequent Transaction or consummates a Subsequent Transaction, then CombiMatrix shall pay to Invitae, within ten (10) Business Days after termination (or, if applicable, upon such entry into a definitive agreement or consummation of a Subsequent Transaction), a nonrefundable fee in an amount equal to \$1,400,000 (the Termination Fee), in addition to any amount payable to Invitae pursuant to Section 9.3(e); provided, however, that such Termination Fee shall be reduced by any amount already paid to Invitae pursuant to Section 9.3(d).

(c) (i) If this Agreement is terminated by CombiMatrix pursuant to Section 9.1(f) other than as a result of an Invitae Material Adverse Effect or (ii) in the event of a failure of CombiMatrix to consummate the

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transactions to be consummated at the Closing solely as a result of an Invitae Material Adverse Effect as set forth in Section 8.3 (provided, that at such time all of the conditions precedent to the obligations of Invitae to a Closing set forth in Section 6 and Section 7 of this Agreement have been satisfied by CombiMatrix, are capable of being satisfied by CombiMatrix, or have been waived by Invitae), then Invitae shall reimburse CombiMatrix for all reasonable fees and expenses incurred by CombiMatrix in connection with this Agreement and the Contemplated Transactions, including (A) all fees and expenses incurred by engagement of the Exchange Agent and in relation to preparation and filing with the SEC of the Registration Statements (including any preliminary materials related thereto and all amendments and supplements thereto, as well as any financial statements and schedules thereto) as well as the printing (e.g., paid to a financial printer) of the Registration Statements and the printing or mailing of the Proxy Statement/Prospectus and the Offer Documents and (B) all fees and expenses incurred in connection with the preparation and Filing under any Filing requirement of any Governmental Authority applicable to this Agreement and the Contemplated Transactions (such expenses, including (A) and (B) above, collectively, the *Third Party Expenses* ), up to a maximum of \$400,000, by wire transfer of same-day funds within ten (10) Business Days following the date on which CombiMatrix submits to Invitae true and correct copies of reasonable documentation supporting such Third Party Expenses; provided, however, that such Third Party Expenses shall not include any amounts for a financial advisor to CombiMatrix except for reasonably documented out-of-pocket expenses otherwise reimbursable by CombiMatrix to such financial advisor pursuant to the terms of CombiMatrix s engagement letter or similar arrangement with such financial advisor.

- (d) (i) If this Agreement is terminated by Invitae pursuant to Sections 9.1(d), 9.1(e) or 9.1(g) (other than, in the instance of Section 9.1(g), as a result of a CombiMatrix Material Adverse Effect), (ii) if this Agreement is terminated by CombiMatrix pursuant to Section 9.1(d), or (iii) in the event of a failure of Invitae to consummate the transactions to be consummated at the Closing solely as a result of a CombiMatrix Material Adverse Effect as set forth in Section 7.3 (provided, that at such time all of the conditions precedent to the obligations of CombiMatrix to a Closing set forth in Section 6 and Section 8 of this Agreement have been satisfied by Invitae or Merger Sub, are capable of being satisfied by Invitae or Merger Sub, or have been waived by CombiMatrix), then CombiMatrix shall reimburse Invitae for all Third Party Expenses incurred by Invitae, up to a maximum of \$400,000, by wire transfer of same-day funds within ten (10) Business Days following the date on which Invitae submits to CombiMatrix true and correct copies of reasonable documentation supporting such Third Party Expenses; provided, however, that such Third Party Expenses shall not include any amounts for a financial advisor to Invitae except for reasonably documented out-of-pocket expenses otherwise reimbursable by Invitae to such financial advisor pursuant to the terms of Invitae s engagement letter or similar arrangement with such financial advisor.
- (e) If either Party fails to pay when due any amount payable by such Party under Sections 9.3(b), 9.3(c) or 9.3(d), then (i) such Party shall reimburse the other Party for reasonable costs and expenses (including reasonable fees and disbursements of counsel) incurred in connection with the collection of such overdue amount and the enforcement by the other Party of its rights under this Section 9.3, and (ii) such Party shall pay to the other Party interest on such overdue amount (for the period commencing as of the date such overdue amount was originally required to be paid and ending on the date such overdue amount is actually paid to the other Party in full) at a rate per annum equal to the prime rate (as announced by Bank of America or any successor thereto) in effect on the date such overdue amount was originally required to be paid.
- (f) The Parties agree that the payment of the fees and expenses set forth in this Section 9.3, subject to Section 9.2, shall be the sole and exclusive remedy of each Party following a termination of this Agreement under the circumstances described in this Section 9.3, it being understood that in no event shall either Invitae or CombiMatrix be required to pay fees or damages payable pursuant to this Section 9.3 on more than one occasion. Subject to Section 9.2, the payment of the fees and expenses set forth in this Section 9.3, and the provisions of Section 10.11, each of the Parties and their respective Affiliates shall have no liability, shall not be entitled to bring or maintain any

other claim, action or proceeding against the other, shall be precluded from any other remedy against the other, at law or in equity or otherwise, and shall not seek to obtain any recovery, judgment or damages of any kind against the other (or any partner, member, stockholder, director, officer, employee, Subsidiary, affiliate, agent or other representative of such Party) in connection with or arising out of the

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termination of this Agreement, any breach by any Party giving rise to such termination or the failure of the Merger and the other Contemplated Transactions to be consummated. Each of the Parties acknowledges that (i) the agreements contained in this Section 9.3 are an integral part of the Contemplated Transactions, (ii) without these agreements, the Parties would not enter into this Agreement and (iii) any amount payable pursuant to this Section 9.3 is not a penalty, but rather is liquidated damages in a reasonable amount that will compensate the Parties in the circumstances in which such amount is payable.

### Section 10. MISCELLANEOUS PROVISIONS

- **10.1 Non-Survival of Representations and Warranties**. The representations and warranties of CombiMatrix, Merger Sub and Invitae contained in this Agreement or any certificate or instrument delivered pursuant to this Agreement shall terminate at the Effective Time, and only the covenants that by their terms survive the Effective Time and this Section 10 shall survive the Effective Time.
- **10.2 Amendment**. This Agreement may be amended with the approval of the respective Boards of Directors of CombiMatrix, Merger Sub and Invitae at any time (whether before or after the adoption and approval of the Merger Proposal by CombiMatrix s stockholders); *provided*, *however*, that after any such adoption and approval of the Merger Proposal by the CombiMatrix stockholders, no amendment shall be made which by law requires further approval of the CombiMatrix stockholders without the further approval of such stockholders. This Agreement may not be amended except by an instrument in writing signed on behalf of each of CombiMatrix, Merger Sub and Invitae.

### 10.3 Waiver.

- (a) No failure on the part of any Party to exercise any power, right, privilege or remedy under this Agreement, and no delay on the part of any Party in exercising any power, right, privilege or remedy under this Agreement, shall operate as a waiver of such power, right, privilege or remedy; and no single or partial exercise of any such power, right, privilege or remedy shall preclude any other or further exercise thereof or of any other power, right, privilege or remedy.
- (b) No Party shall be deemed to have waived any claim arising out of this Agreement, or any power, right, privilege or remedy under this Agreement, unless the waiver of such claim, power, right, privilege or remedy is expressly set forth in a written instrument duly executed and delivered on behalf of such Party; and any such waiver shall not be applicable or have any effect except in the specific instance in which it is given.
- **10.4** Entire Agreement; Counterparts; Exchanges by Facsimile or Electronic Transmission. This Agreement and the other agreements referred to in this Agreement constitute the entire agreement and supersede all prior agreements and understandings, both written and oral, among or between any of the Parties with respect to the subject matter hereof and thereof; provided, however, that the Confidentiality Agreement shall not be superseded and shall remain in full force and effect in accordance with its terms. This Agreement may be executed in several counterparts, each of which shall be deemed an original and all of which shall constitute one and the same instrument. The exchange of a fully executed Agreement (in counterparts or otherwise) by all Parties by facsimile or electronic transmission in .PDF format shall be sufficient to bind the Parties to the terms and conditions of this Agreement.
- **10.5 Applicable Law; Jurisdiction**. This Agreement shall be governed by, and construed in accordance with, the laws of the State of Delaware, regardless of the laws that might otherwise govern under applicable principles of conflicts of laws. In any action or suit between any of the Parties arising out of or relating to this Agreement or any of the Contemplated Transactions: (a) each of the Parties irrevocably and unconditionally consents and submits to the exclusive jurisdiction and venue of the state and federal courts located in the State of Delaware; (b) if any such action

or suit is commenced in a state court, then, subject to applicable Legal Requirements, no Party shall object to the removal of such action or suit to any federal court located in the District of Delaware; and (c) each of the Parties irrevocably waives the right to trial by jury.

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**10.6 Attorneys Fees**. In any action at law or suit in equity to enforce this Agreement or the rights of any of the Parties under this Agreement, the prevailing Party in such action or suit shall be entitled to receive a reasonable sum for its attorneys fees and all other reasonable costs and expenses incurred in such action or suit.

**10.7 Assignability; No Third Party Beneficiaries**. This Agreement shall be binding upon, and shall be enforceable by and inure solely to the benefit of, the Parties and their respective successors and assigns; *provided*, *however*, that neither this Agreement nor any of a Party s rights or obligations hereunder may be assigned or delegated by such Party without the prior written consent of the other Parties, and any attempted assignment or delegation of this Agreement or any of such rights or obligations by such Party without the other Parties prior written consent shall be void and of no effect. Nothing in this Agreement, express or implied, is intended to or shall confer upon any Person (other than the Parties and the D&O Indemnified Parties to the extent of their respective rights pursuant to <u>Section 5.6</u>) any right, benefit or remedy of any nature whatsoever under or by reason of this Agreement.

**10.8 Notices**. Any notice or other communication required or permitted to be delivered to any Party under this Agreement shall be in writing and shall be deemed properly delivered, given and received when delivered by hand, by registered mail, by courier or express delivery service or by facsimile to the address or facsimile number set forth beneath the name of such Party below (or to such other address or facsimile number as such Party shall have specified in a written notice given to the other Parties):

if to Invitae or Merger Sub:

**Invitae Corporation** 

1400 16th Street

San Francisco, California 94103

Attention: Chief Financial Officer

with a copy to:

Pillsbury Winthrop Shaw Pittman LLP

12255 El Camino Real, Suite 300

San Diego, California 92130

Fax: (858) 509-4010

Attention: Mike Hird

if to CombiMatrix:

CombiMatrix Corporation

300 Goddard, Suite 100

Irvine, California 92618

Fax: 949.753.1504

Attention: Chief Financial Officer

with a copy to:

Stradling Yocca Carlson & Rauth, P.C.

660 Newport Center Drive, Suite 1600

Newport Beach, CA 92660

Email: pschweich@sycr.com

Attention: Parker Schweich

**10.9** Cooperation. Each Party agrees to cooperate fully with the other Parties and to execute and deliver such further documents, certificates, agreements and instruments and to take such other actions as may be reasonably requested by any other Party to evidence or reflect the Contemplated Transactions and to carry out the intent and purposes of this Agreement.

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**10.10 Severability**. Any term or provision of this Agreement that is invalid or unenforceable in any situation in any jurisdiction shall not affect the validity or enforceability of the remaining terms and provisions of this Agreement or the validity or enforceability of the offending term or provision in any other situation or in any other jurisdiction. If a final judgment of a court of competent jurisdiction declares that any term or provision of this Agreement is invalid or unenforceable, the Parties agree that the court making such determination shall have the power to limit such term or provision, to delete specific words or phrases or to replace such term or provision with a term or provision that is valid and enforceable and that comes closest to expressing the intention of the invalid or unenforceable term or provision, and this Agreement shall be valid and enforceable as so modified. In the event such court does not exercise the power granted to it in the prior sentence, the Parties agree to replace such invalid or unenforceable term or provision with a valid and enforceable term or provision that will achieve, to the extent possible, the economic, business and other purposes of such invalid or unenforceable term or provision.

**10.11 Other Remedies; Specific Performance**. Except as otherwise provided herein, any and all remedies herein expressly conferred upon a Party will be deemed cumulative with and not exclusive of any other remedy conferred hereby, or by law or equity upon such Party, and the exercise by a Party of any one remedy will not preclude the exercise of any other remedy. The Parties agree that irreparable damage would occur in the event that any of the provisions of this Agreement were not performed in accordance with their specific terms or were otherwise breached. It is accordingly agreed that the Parties shall be entitled to an injunction or injunctions to prevent breaches of this Agreement and to enforce specifically the terms and provisions hereof in any court of the United States or any state having jurisdiction, this being in addition to any other remedy to which they are entitled at law or in equity, and each of the Parties waives any bond, surety or other security that might be required of any other Party with respect thereto.

### 10.12 Construction.

- (a) For purposes of this Agreement, whenever the context requires: the singular number shall include the plural, and vice versa; the masculine gender shall include the feminine and neuter genders; the feminine gender shall include the masculine and neuter genders; and the neuter gender shall include masculine and feminine genders.
- **(b)** The Parties agree that any rule of construction to the effect that ambiguities are to be resolved against the drafting Party shall not be applied in the construction or interpretation of this Agreement.
- (c) As used in this Agreement, the words include and including, and variations thereof, shall not be deemed to be terms of limitation, but rather shall be deemed to be followed by the words without limitation.
- (d) Except as otherwise indicated, all references in this Agreement to Sections, Exhibits and Schedules are intended to refer to Sections of this Agreement and Exhibits and Schedules to this Agreement, respectively.
- (e) The bold-faced headings contained in this Agreement are for convenience of reference only, shall not be deemed to be a part of this Agreement and shall not be referred to in connection with the construction or interpretation of this Agreement.

[Remainder of page intentionally left blank]

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IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed as of the date first above written.

### INVITAE CORPORATION

By: /s/ Lee Bendekgey Name: Lee Bendekgey

Title: Chief Operating Officer

## CORONADO MERGER SUB, INC.

By: /s/ Lee Bendekgey Name: Lee Bendekgey

Title: Chief Executive Officer

### **COMBIMATRIX CORPORATION**

By: /s/ Mark McDonough Name: Mark McDonough

Title: President & Chief Executive Officer

## Exhibits:

Exhibit A Certain Definitions

Exhibit B-1 Form of Transaction Bonus Payout Agreement (Executive Officers)

Exhibit B-2 Form of Transaction Bonus Payout Agreement (Directors)

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### **EXHIBIT A**

### **CERTAIN DEFINITIONS**

For purposes of the Agreement (including this <u>Exhibit A</u>):

**2006 Plan** shall have the meaning set forth in Section 2.3(c).

**ACA** shall have the meaning set forth in Section 2.13(p).

**Accounting Firm** shall have the meaning set forth in Section 1.6(e).

Acquired Corporations shall mean CombiMatrix and each of the CombiMatrix Subsidiaries, collectively.

**Acquisition Agreement** shall have the meaning set forth in Section 4.4(a).

**Acquisition Inquiry** shall mean an inquiry, indication of interest or request for information (other than an inquiry, indication of interest or request for information made or submitted by or on behalf of Invitae) that could reasonably be expected to lead to an Acquisition Proposal.

**Acquisition Proposal** shall mean any offer or proposal (other than an offer or proposal made or submitted by or on behalf of Invitae), whether written or oral, contemplating or otherwise relating to any Acquisition Transaction.

**Acquisition Transaction** shall mean any transaction or series of transactions involving:

any merger, consolidation, amalgamation, share exchange, business combination, issuance of securities, acquisition of securities, reorganization, recapitalization, tender offer, exchange offer or other similar transaction: (i) in which CombiMatrix is a constituent corporation; (ii) in which a Person or group (as defined in the Exchange Act and the rules promulgated thereunder) of Persons directly or indirectly acquires beneficial or record ownership of securities representing more than 20% of the outstanding securities of any class of voting securities of CombiMatrix or any of its Subsidiaries; or (iii) in which CombiMatrix or any of its Subsidiaries; of the outstanding securities of any class of voting securities of CombiMatrix or any of its Subsidiaries;

any sale, lease, exchange, transfer, license, acquisition or disposition of any business or businesses or assets that constitute or account for 20% or more of the consolidated book value or the fair market value of the assets of CombiMatrix and its Subsidiaries, taken as a whole; or

any liquidation or dissolution of CombiMatrix.

Affiliates shall have the meaning for such term as used in Rule 145 under the Securities Act.

**Agreement** shall mean the Agreement and Plan of Merger and Reorganization to which this Exhibit A is attached, as it may be amended from time to time.

*Allocation Certificate* shall have the meaning set forth in Section 5.16.

Anticipated Closing Date shall have the meaning set forth in Section 1.6(a).

**BIS** shall have the meaning set forth in Section 2.11(o).

**Business Day** shall mean any day other than a day on which banks in the State of California are authorized or obligated to be closed.

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**CAP** shall have the meaning set forth in Section 2.11(b).

*Certificate of Merger* shall have the meaning set forth in Section 1.3.

*CLIA* shall mean the Clinical Laboratory Improvement Amendments, 42 C.F.R. Part 493, and all regulations promulgated thereunder.

**Closing** shall have the meaning set forth in Section 1.3.

**Closing Date** shall have the meaning set forth in Section 1.3.

**CMDX** shall have the meaning set forth in Section 5.4(a).

*CMDX 2005 Plan* shall have the meaning set forth in Section 5.4(a).

**COBRA** shall mean the Consolidated Omnibus Budget Reconciliation Act of 1985, as amended, as set forth in Section 4980B of the Code and Part 6 of Title I of ERISA.

*Code* shall mean the Internal Revenue Code of 1986, as amended.

**Collaboration Partner** shall mean any Person that co-develops or co-markets (or has a license to develop, market or sell) any product, technology or service of CombiMatrix or any CombiMatrix Subsidiary.

*CombiMatrix* shall have the meaning set forth in the Preamble.

*CombiMatrix 401(k) Plan* shall have the meaning set forth in Section 5.5.

*CombiMatrix 409A Plan* shall have the meaning set forth in Section 2.13(f).

*CombiMatrix Affiliate* shall mean any Person that is (or at any relevant time was) under common control with CombiMatrix within the meaning of Sections 414(b), (c), (m) and (o) of the Code, and the regulations issued thereunder.

*CombiMatrix Associate* shall mean any current or former employee, independent contractor, officer or director of CombiMatrix or any CombiMatrix Affiliate.

CombiMatrix Board Adverse Recommendation Change shall have the meaning set forth in Section 5.2(c).

CombiMatrix Board of Directors shall mean the board of directors of CombiMatrix.

**CombiMatrix Board Recommendation** shall have the meaning set forth in Section 5.2(b).

CombiMatrix Capital Stock shall mean the CombiMatrix Common Stock and the CombiMatrix Preferred Stock.

**CombiMatrix Certifications** shall have the meaning set forth in Section 2.4(a).

**CombiMatrix Common Stock** shall mean the Common Stock, \$0.001 par value per share, of CombiMatrix.

*CombiMatrix Contract* shall mean any Contract: (a) to which CombiMatrix or any of its Subsidiaries is a Party; (b) by which CombiMatrix or any CombiMatrix Subsidiary or any CombiMatrix IP Rights or any other

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asset of CombiMatrix or any of its Subsidiaries is or may become bound or under which CombiMatrix or any CombiMatrix Subsidiary has, or may become subject to, any obligation; or (c) under which CombiMatrix or CombiMatrix Subsidiary has or may acquire any right or interest.

*CombiMatrix D&O Policies* shall have the meaning set forth in Section 2.15(b).

CombiMatrix Disclosure Schedule shall have the meaning set forth in Section 2.

CombiMatrix Employee Plan shall have the meaning set forth in Section 2.13(d).

*CombiMatrix IP Rights* shall mean all Intellectual Property owned, licensed or controlled by CombiMatrix or any of its Subsidiaries that is necessary or used in the business of CombiMatrix or any of its Subsidiaries as presently conducted or as presently proposed to be conducted.

*CombiMatrix IP Rights Agreement* shall mean any instrument or agreement governing, related or pertaining to any CombiMatrix IP Rights.

CombiMatrix Material Adverse Effect shall mean any Effect that, considered together with all other Effects that have occurred prior to the date of determination of the occurrence of the CombiMatrix Material Adverse Effect, is or could reasonably be expected to be materially adverse to, or has or could reasonably be expected to have or result in a material adverse effect on: (a) the business, condition (financial or otherwise), capitalization, assets (including Intellectual Property), operations or financial performance of CombiMatrix and its Subsidiaries taken as a whole; or (b) the ability of CombiMatrix to consummate the Merger or any of the other Contemplated Transactions or to perform any of its covenants or obligations under the Agreement in all material respects; provided, however, that Effects from the following shall not be deemed to constitute (nor shall Effects from any of the following be taken into account in determining whether there has occurred) a CombiMatrix Material Adverse Effect: (i) any rejection by a Governmental Body of a registration or Filing by CombiMatrix relating to the CombiMatrix IP Rights; (ii) any change in the cash position of CombiMatrix which results from operations in the Ordinary Course of Business; (iii) conditions generally affecting the industries in which CombiMatrix and its Subsidiaries participate or the United States or global economy or capital markets as a whole, to the extent that such conditions do not have a disproportionate impact on CombiMatrix and its Subsidiaries taken as a whole; (iv) any failure by CombiMatrix or any of its Subsidiaries to meet internal projections or forecasts or third party revenue or earnings predictions for any period ending (or for which revenues or earnings are released) on or after the date of this Agreement (it being understood, however, that any Effect causing or contributing to any such failure to meet projections or predictions or any change in stock price or trading volume may constitute a CombiMatrix Material Adverse Effect and may be taken into account in determining whether a CombiMatrix Material Adverse Effect has occurred); (v) the execution, delivery, announcement or performance of the obligations under this Agreement or the announcement, pendency or anticipated consummation of the Merger; (vi) any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof, to the extent that any such event does not have a disproportionate impact on CombiMatrix and its Subsidiaries taken as a whole; (vii) changes in regulatory, legislative or political conditions in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on CombiMatrix and its Subsidiaries taken as a whole; (viii) changes in conditions in the financial markets, credit markets or capital markets in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on CombiMatrix and its Subsidiaries taken as a whole, including (1) changes in interest rates or credit ratings in the United States or any other country; (2) changes in exchange rates for the currencies of any country; or (3) any suspension of trading in securities (whether equity, debt, derivative or hybrid securities) generally on any securities exchange or over-the-counter market operating in the United States or any other country or region in the world; or (ix) any changes (after the date of this Agreement) in GAAP or applicable Legal Requirements, to the

extent that such changes do not have a disproportionate impact on CombiMatrix and its Subsidiaries taken as a whole.

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**CombiMatrix Material Contract** shall have the meaning set forth in Section 2.9.

*CombiMatrix Options* shall mean options or other rights to purchase shares of CombiMatrix Common Stock issued or granted by CombiMatrix.

*CombiMatrix PIPE Warrants* shall mean the CombiMatrix warrants exercisable for shares of CombiMatrix Common Stock at current per share exercise prices of \$16.50 and \$32.51 that expire on August 13, 2020.

**CombiMatrix Preferred Stock** shall have the meaning set forth in Section 2.3(a).

*CombiMatrix Registered IP* shall mean all CombiMatrix IP Rights that are registered, filed or issued under the authority of, with or by any Governmental Body, including all patents, registered copyrights and registered trademarks and all applications for any of the foregoing.

CombiMatrix Regulatory Permits shall have the meaning set forth in Section 2.11(c).

*CombiMatrix RSUs* shall mean the right to receive shares of CombiMatrix Common Stock upon settlement of such award issued or granted by CombiMatrix.

CombiMatrix SEC Documents shall have the meaning set forth in Section 2.4(a).

CombiMatrix Series A Warrants shall mean the CombiMatrix warrants exercisable for shares of CombiMatrix Common Stock (i) at a current per share exercise price of \$29.55 that expire on October 1, 2018 and (ii) at a current per share exercise price of \$30.90 that expire on April 1, 2018.

*CombiMatrix Series B Warrants* shall mean the CombiMatrix warrants exercisable for shares of CombiMatrix Common Stock at a current per share exercise price of \$29.55 that expire on March 20, 2019.

*CombiMatrix Series C Warrants* shall mean the CombiMatrix warrants exercisable for shares of CombiMatrix Common Stock at a current per share exercise price of \$29.55 that expire on May 6, 2019 and June 28, 2019.

*CombiMatrix Series D Warrants* shall mean the CombiMatrix warrants exercisable for shares of CombiMatrix Common Stock at a current per share exercise price of \$46.80 that expire on December 19, 2018.

*CombiMatrix Series E Warrants* shall mean the CombiMatrix warrants exercisable for shares of CombiMatrix Common Stock at a current per share exercise price of \$16.50 that expire on August 18, 2020.

CombiMatrix Series F Preferences Certificate shall have the meaning set forth in Section 2.3(f).

**CombiMatrix Series F Preferred Stock** shall mean the 8,000 shares of CombiMatrix convertible preferred stock, par value \$0.001 per share, which have been designated as Series F pursuant to the Certificate of Designation of Preferences, Rights and Limitations of Series F Convertible Preferred Stock.

*CombiMatrix Series F Warrants* shall mean the CombiMatrix warrants exercisable for shares of CombiMatrix Common Stock at a current per share exercise price of \$5.17 that expire on March 24, 2021.

CombiMatrix Stock Certificate shall have the meaning set forth in Section 1.7.

CombiMatrix Stockholders Meeting shall have the meaning set forth in Section 5.2(a).

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CombiMatrix Transaction Bonus Payout Agreements shall mean each of (i) the Transaction Bonus Plan Agreements in the form substantially attached hereto as <a href="Exhibit B-1">Exhibit B-1</a>, entered into with each of the executive officers and the Vice President of Billing & Reimbursement of CombiMatrix concurrently with the execution of this Agreement, and (ii) the Transaction Bonus Plan Agreements in the form substantially attached hereto as <a href="Exhibit B-2">Exhibit B-2</a>, entered into with each of the outside directors of CombiMatrix concurrently with the execution of this Agreement.

**CombiMatrix Transaction Bonus Plan** shall mean the Transaction Bonus Plan of CombiMatrix which was adopted on December 2, 2015 which provides for certain bonus payments to be made, upon the consummation of a qualifying change of control transaction, to certain employees of CombiMatrix as determined from time to time by the compensation committee of the CombiMatrix Board of Directors.

A *CombiMatrix Triggering Event* shall be deemed to have occurred if: (i) the CombiMatrix Board of Directors shall have failed to recommend that CombiMatrix s stockholders vote to adopt and approve the Merger Proposal or shall for any reason have withdrawn or shall have modified in a manner adverse to Invitae the CombiMatrix Board Recommendation; (ii) CombiMatrix shall have failed to include in the Proxy Statement/Prospectus the CombiMatrix Board Recommendation; (iii) the CombiMatrix Board of Directors shall have approved, endorsed or recommended any Acquisition Proposal; (iv) CombiMatrix shall have entered into any letter of intent or similar document or any Contract relating to any Acquisition Proposal (other than a confidentiality agreement permitted pursuant to Section 4.4); or (v) CombiMatrix or any Representative of CombiMatrix shall have breached the provisions set forth in Section 4.4 of the Agreement.

**CombiMatrix Unaudited Interim Balance Sheet** shall mean the unaudited consolidated balance sheet of CombiMatrix and its consolidated Subsidiaries as of April 30, 2017, provided to Invitae prior to the date of this Agreement.

CombiMatrix Warrant Repurchase shall have the meaning set forth in Section 5.4(b).

*CombiMatrix Warrants* shall have the meaning set forth in Section 2.3(a).

*Confidentiality Agreement* shall mean the Mutual Confidentiality Agreement and Standstill Agreement made on May 6, 2016 by and between CombiMatrix and Invitae.

*Consent* shall mean any approval, consent, ratification, permission, waiver or authorization (including any Governmental Authorization).

**Contemplated Transactions** shall mean the Merger, the Warrant Exchange Offer, the CombiMatrix Warrant Repurchase, the termination of all outstanding CombiMatrix Options immediately prior to the Effective Time, and the other transactions and actions contemplated by the Agreement.

**Contract** shall, with respect to any Person, mean any written agreement, contract, subcontract, lease (whether real or personal property), mortgage, understanding, arrangement, instrument, note, option, warranty, purchase order, license, sublicense, insurance policy, benefit plan or legally binding commitment or undertaking of any nature to which such Person is a party or by which such Person or any of its assets are bound or affected under applicable law.

**Converted CombiMatrix Options** shall have the meaning set forth in Section 5.4(a).

**D&O Indemnified Parties** shall have the meaning set forth in Section 5.6(a).

*Data* shall mean all data, information, databases, data files and other collections of data, including patient data, case study data, expression level data and risk outcomes, as well as all documentation and media on which any of the foregoing is recorded.

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Data Security Requirements shall mean, collectively, all of the following, to the extent relating to privacy or data security and applicable to CombiMatrix or any CombiMatrix Subsidiary or to the business of CombiMatrix or any CombiMatrix Subsidiary as presently conducted and as presently proposed to be conducted: (i) CombiMatrix s own rules, policies, and procedures; (ii) all applicable Legal Requirements; (iii) industry standards applicable to the industry in which CombiMatrix or any CombiMatrix Subsidiary operates; and (iv) Contracts into which CombiMatrix or any CombiMatrix Subsidiary is otherwise bound.

**Determination Date** shall have the meaning set forth in Section 1.6(a).

**DGCL** shall mean the General Corporation Law of the State of Delaware.

**Dispute Notice** shall have the meaning set forth in Section 1.6(b).

*Effect* shall mean any effect, change, event, circumstance, or development.

**Effective Time** shall have the meaning set forth in Section 1.3.

**Encumbrance** shall mean any lien, pledge, hypothecation, charge, mortgage, security interest, encumbrance, claim, infringement, interference, option, right of first refusal, preemptive right, community property interest or restriction of any nature (including any restriction on the voting of any security, any restriction on the transfer of any security or other asset, any restriction on the receipt of any income derived from any asset, any restriction on the use of any asset and any restriction on the possession, exercise or transfer of any other attribute of ownership of any asset).

**End Date** shall have the meaning set forth in Section 9.1(b).

*Entity* or *Entities* shall mean any corporation (including any non-profit corporation), partnership (including any general partnership, limited partnership or limited liability partnership), joint venture, estate, trust, company (including any company limited by shares, limited liability company or joint stock company), firm, society or other enterprise, association, organization or entity, and each of its successors.

Environmental Law shall mean any federal, state, local or foreign Legal Requirement relating to pollution or protection of human health or the environment (including ambient air, surface water, ground water, land surface or subsurface strata), including any law or regulation relating to emissions, discharges, releases or threatened releases of Hazardous Materials, or otherwise relating to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials.

**ERISA** shall mean the Employee Retirement Income Security Act of 1974, as amended.

*Exchange Act* shall mean the Securities Exchange Act of 1934, as amended.

**Exchange Agent** shall have the meaning set forth in Section 1.8(a).

**Exchange Fund** shall have the meaning set forth in Section 1.8(a).

**Exchange Ratio** shall mean, subject to Section 1.5(f), the greater of **X** or **Y**, where:

X = The *quotient* obtained by dividing A by B where:

**A** = The Invitae Merger Shares; and

**B** = The CombiMatrix Outstanding Shares,

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and where:

Adjusted Aggregate Value means the sum of (i) \$27,000,000, plus or minus (ii) Net Cash (determined pursuant to Section 1.6).

CombiMatrix Outstanding Shares means the total number of shares of CombiMatrix Capital Stock outstanding immediately prior to the Effective Time expressed on a fully diluted and as-converted to CombiMatrix Common Stock basis and assuming, without limitation, (i) the settlement of all CombiMatrix RSUs, whether unvested or vested, as of immediately prior to the Effective Time, (ii) the cash exercise of all CombiMatrix Options outstanding as of immediately prior to the Effective Time (i.e., to the extent not terminated without the right to receive any consideration as contemplated for out-of-the-money CombiMatrix Options by Section 5.4(a)), (iii) the cash exercise of all CombiMatrix Series F Warrants outstanding as of the Effective Time (i.e., to the extent not exchanged in the Warrant Exchange Offer or exercised prior to consummation of the Warrant Exchange Offer), (iv) the conversion of all CombiMatrix Series F Preferred Stock outstanding as of the Effective Time and (v) the issuance of shares of CombiMatrix Common Stock in respect of all other options, warrants, convertible securities or rights to receive such shares, whether conditional or unconditional and including any options, warrants, convertible securities or rights triggered by or associated with the consummation of the Merger; provided that, notwithstanding the foregoing, the following shares of CombiMatrix Common Stock shall be excluded from such total: (x) shares of CombiMatrix Common Stock issuable upon exercise of the CombiMatrix Series D Warrants so long as the terms of the CombiMatrix Series D Warrants have not been modified following the date of this Agreement; (y) shares of CombiMatrix Common Stock issuable upon exercise of the CombiMatrix Series F Warrants that are exchanged in the Warrant Exchange Offer; and (z) Terminated CombiMatrix Options.

*Invitae Merger Shares* mean a total number of shares of Invitae Common Stock equal to the *quotient* determined by *dividing* the Adjusted Aggregate Value by the Invitae Trailing Average Share Value.

*Invitae Trailing Average Share Value* means the average closing price for shares of Invitae Common Stock on the NYSE (or any other exchange which is then the primary exchange upon which shares of Invitae Common Stock are traded) for the immediately preceding period of thirty (30) trading days prior to the date of this Agreement.

As an example, if Net Cash is \$0.00, the CombiMatrix Outstanding Shares amount is 3,750,000 and the Invitae Trailing Average Share Value is \$9.00, then **X** would be determined as follows:

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Adjusted Aggregate Value $27,000,000 \pm Net Cash X = (India Trailing Average Share Value) = (India Trailing Average Share Value) Coronado Outstanding Shares Coronado Outstanding Shares
```

$$X = ( $27,000,000 \pm $0]$$
  
 $X = ( $9.00 ) = 3,000,000 = 0.80$   
 $3,750,000 3,750,000$ 

The Exchange Ratio would thus be 0.80 shares of Invitae Common Stock issuable per share of CombiMatrix Common Stock, subject to **Y** (below) being greater.

**Y** = The *quotient* obtained by dividing (x) the *sum* of (i) \$8.25 *minus* (ii) the Adjustment Amount, by (y) the Invitae Trailing Average Share Value, where

Adjustment Amount means the quotient represented by C divided by D, where

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 $\mathbf{C}$  = The *sum* of the following:

- (i) the amount, if any, by which Net Cash (determined pursuant to <u>Section 1.6</u>, but not taking into account any gross proceeds from exercises of CombiMatrix Series F Warrants after the date of this Agreement) is below (x) negative \$1,000,000.00 if the aggregate payouts in shares of Invitae Common Stock (calculated using the Invitae Trailing Average Share Value) pursuant to the CombiMatrix Transaction Bonus Plan Agreements will be greater than \$2,000,000, and otherwise (y) \$0.00, *plus*
- (ii) the *product* of \$8.25 *multiplied by* the *sum*, if any, of (x) any shares of CombiMatrix Common Stock that are issued or that become issuable (including upon any conversion or exercise of any securities) after the date of this Agreement (other than pursuant to conversion or exercise of any securities outstanding as of the date of this Agreement) *plus* (y) the excess, if any, of (A) the total number of shares of CombiMatrix Common Stock actually outstanding as of the date of this Agreement over (B) the total number of shares of CombiMatrix Common Stock represented to be outstanding as of the date of this Agreement pursuant to Section 2.3, calculated in each instance on a fully diluted and as-converted/as-exercised to CombiMatrix Common Stock basis but excluding shares issuable upon the exercise of Terminated CombiMatrix Options or CombiMatrix Warrants subject to the CombiMatrix Warrant Repurchase; and
- **D** = The CombiMatrix Outstanding Shares.

As an example, if Net Cash (excluding CombiMatrix Series F Warrant proceeds) is negative \$1,285,000 (and the aggregate payouts in shares of Invitae Common Stock (calculated using the Invitae Trailing Average Share Value) pursuant to the CombiMatrix Transaction Bonus Plan Agreements will be greater than \$2,000,000), there are 20,000 shares of CombiMatrix Common Stock issued or that become issuable after the date of this Agreement (other than pursuant to conversion or exercise of any securities outstanding as of the date of this Agreement), the represented capitalization of CombiMatrix pursuant to Section 2.3 as of the date of this Agreement is accurate, the Invitae Trailing Average Share Value is \$9.00 and **D** is 3,0000,000, then **Y** would be determined as follows:

$$Y = \begin{cases} \$8.25 & Adjustment\ Amount \\ India\ Trailing\ Average\ Share\ Value \end{cases} = \begin{cases} \$8.25 & C\\ Coronado\ Outstanding\ Shares \\ India\ Trailing\ Average\ Share\ Value \end{cases}$$

$$\$8.25 & (\$1,285,000 \quad \$1,000,000) + (20,000)(\$8.25)$$

$$3,000,000$$

$$Y = \begin{bmatrix} \$9.00 & \end{bmatrix}$$

The Exchange Ratio would thus be 0.90 shares of Invitae Common Stock issuable per share of CombiMatrix Common Stock, subject to  $\mathbf{X}$  (above) being greater.

**FCPA** shall have the meaning set forth in Section 2.11(n).

FDA shall mean the United States Food and Drug Administration or any successor entity.

*Filing* shall mean any registration, petition, statement, application, schedule, form, declaration, notice, notification, report, submission or information or other filing.

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Form S-4 Merger Registration Statement shall mean the registration statement on Form S-4 to be filed with the SEC by Invitae registering the public offering and sale of Invitae Common Stock to some or all holders of CombiMatrix Common Stock in the Merger, including all shares of Invitae Common Stock to be issued in exchange for all shares of CombiMatrix Capital Stock in the Merger, as said registration statement may be amended prior to the time it is declared effective by the SEC.

Form S-4 Warrant Exchange Offer Registration Statement shall have the meaning set forth in Section 5.1(b).

**FSE List** shall have the meaning set forth in Section 2.11(o).

**GAAP** shall have the meaning set forth in Section 2.4(b).

**Government Official** shall mean any official, officer, employee, or representative of any Governmental Authority or instrumentality thereof, or for or on behalf of a public international organization within the meaning of the FCPA, as well as any person acting in an official capacity for or on behalf of any such government or department, agency, or instrumentality, or for or on behalf of any such public international organization.

*Governmental Authority* shall mean any court or tribunal, governmental, quasi-governmental or regulatory body, administrative agency or bureau, commission or authority or other body exercising similar powers or authority.

Governmental Authorization shall mean any: (a) permit, license, certificate, franchise, permission, variance, exceptions, orders, clearance, registration, qualification or authorization issued, granted, given or otherwise made available by or under the authority of any Governmental Body or pursuant to any Legal Requirement (including 510(k)s, pre-market approval applications approved by the FDA in accordance with 21 U.S.C. § 360(e) and 21 C.F.R. Part 814, Investigational Device Exemptions, Medicare, Medicaid and other provider numbers, state laboratory licenses, CLIA and DEA certifications and other permits, as well as corresponding foreign permits and licenses); or (b) right under any Contract with any Governmental Body.

Governmental Body shall mean any: (a) federal, state, commonwealth, province, territory, county, municipality, local, district, foreign or other jurisdiction of any nature; (b) federal, state, county, local, municipal, foreign or other government; (c) governmental or quasi-Governmental Authority of any nature (including any governmental division, department, agency, commission, instrumentality, official, ministry, fund, foundation, center, organization, unit, body or Entity and any court or other tribunal, and for the avoidance of doubt, any Taxing authority); or (d) self-regulatory organization (including the NYSE).

**Grant Date** shall have the meaning set forth in Section 2.13(e).

*Hazardous Materials* shall mean any pollutant, chemical, substance and any toxic, infectious, carcinogenic, reactive, corrosive, ignitable or flammable chemical, or chemical compound, or hazardous substance, material or waste, whether solid, liquid or gas, that is subject to regulation, control or remediation under any Environmental Law, including crude oil or any fraction thereof, and petroleum products or by-products.

**Health Authority** shall mean the Governmental Authorities that administer Health Laws, including the FDA.

**Health Law** shall mean any Legal Requirement applicable to the products, technology and services of CombiMatrix or any CombiMatrix Subsidiary, including any Legal Requirement the purpose of which is to ensure the safety, efficacy and quality of medical, pharmaceutical, biotechnology and similar products, technologies and services by regulating the research and development of these products, technologies and

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services, including Legal Requirements relating to good clinical practices, investigational use, record keeping and Filing of required reports. Without limiting the foregoing, Health Law includes (i) the Federal Food, Drug, and Cosmetic Act, 21 U.S.C. § 321 et seq., and all regulations promulgated thereunder, (ii) the Health Insurance Portability and Accountability Act of 1996, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009 (codified at 42 U.S.C. § 300gg and 29 U.S.C. § 1181 et seq. and 42 USC 1320d et seq.), (iii) the Federal Ethics in Patient Referrals Act, 42 U.S.C. § 1395nn, and all regulations promulgated thereunder (the *Stark Law*), (iv) the Federal Health Care Program Anti-Kickback Statute, 42 U.S.C. § 1320a-7b(b), and all regulations promulgated thereunder (the *Anti-Kickback Statute*), (v) the Federal False Claim Act, 31 U.S.C. § 3729, and all regulations promulgated thereunder, (vi) the Occupational Safety and Health Act, and all regulations promulgated thereunder ( *OSHA*), (vii) CLIA, (viii) applicable Legal Requirements of the U.S. Drug Enforcement Administration ( *DEA*), (ix) state anti-kickback, fee-splitting and patient brokering Legal Requirements, (x) all applicable state Information Privacy and Security Laws and (xi) state Legal Requirements governing self-referral and the licensure and operation of clinical laboratories.

**HSR** Act shall mean the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended.

Information Privacy and Security Laws shall mean all Legal Requirements concerning the privacy, protection, transfer or security of Personal Information, including any applicable Legal Requirement, and all regulations promulgated and guidance issued by Governmental Authorities (including staff reports) thereunder, including the following Legal Requirements and their implementing regulations or regulatory guidance, each as amended from time to time: HIPAA, guidance and regulations issued by the FDA regarding clinical trials or the de-identification of biological samples, the Federal Trade Commission Act, the CAN-SPAM Act, the Telephone Consumer Protection Act, the Telemarketing and Consumer Fraud and Abuse Prevention Act, Children's Online Privacy Protection Act, state data security laws, state social security number protection laws, state data breach notification laws, state consumer protection laws, Directive 95/46/EC of the European Parliament and of the Council of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and the related national implementing laws and regulations of the European Union Member States, any Legal Requirements pertaining to privacy or data security of health information, genetic information or biological samples, and any applicable Legal Requirements concerning requirements for website and mobile application privacy policies and practices, call or electronic monitoring or recording or any outbound communications (including outbound calling and text messaging, telemarketing, and email marketing).

Intellectual Property shall mean (a) United States, foreign and international patents, patent applications, including provisional applications, statutory invention registrations, invention disclosures and inventions, (b) trademarks, service marks, trade names, domain names, URLs, trade dress, logos and other source identifiers, including registrations and applications for registration thereof, (c) copyrights, including registrations and applications for registration thereof, and (d) software, formulae, customer lists, trade secrets, know-how, confidential information and other proprietary rights and intellectual property, whether patentable or not.

*Invitae* shall have the meaning set forth in the Preamble.

Invitae Board of Directors shall mean the board of directors of Invitae.

*Invitae Certifications* shall have the meaning set forth in Section 3.3(a).

*Invitae Common Stock* shall mean the Common Stock, \$0.0001 par value per share, of Invitae.

*Invitae Disclosure Schedule* shall have the meaning set forth in Section 3.

Invitae Material Adverse Effect shall mean any Effect that, considered together with all other Effects that have occurred prior to the date of determination of the occurrence of the Invitae Material Adverse Effect, is or could reasonably be expected to be or to become materially adverse to, or has or could reasonably be expected to

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have or result in a material adverse effect on: (a) the business, condition (financial or otherwise), capitalization, assets, operations or financial performance of Invitae; or (b) the ability of Invitae to consummate the Merger or any of the other Contemplated Transactions or to perform any of its covenants or obligations under the Agreement in all material respects; provided, however, that Effects from the following shall not be deemed to constitute (nor shall Effects from any of the following be taken into account in determining whether there has occurred) an Invitae Material Adverse Effect: (i) conditions generally affecting the industries in which Invitae participates or the United States or global economy or capital markets as a whole, to the extent that such conditions do not have a disproportionate impact on Invitae; (ii) any failure by Invitae to meet internal projections or forecasts or third party revenue or earnings predictions for any period ending (or for which revenues or earnings are released) on or after the date of this Agreement or any change in the price or trading volume of Invitae Common Stock (it being understood, however, that any Effect causing or contributing to any such failure to meet projections or predictions or any change in stock price or trading volume may constitute an Invitae Material Adverse Effect and may be taken into account in determining whether an Invitae Material Adverse Effect has occurred); (iii) the execution, delivery, announcement or performance of the obligations under this Agreement or the announcement, pendency or anticipated consummation of the Merger; (iv) any natural disaster or any acts of terrorism, sabotage, military action or war or any escalation or worsening thereof, to the extent that any such event does not have a disproportionate impact on Invitae; (v) changes in regulatory, legislative or political conditions in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on Invitae; (vi) changes in conditions in the financial markets, credit markets or capital markets in the United States or any other country or region in the world, to the extent that such changes do not have a disproportionate impact on Invitae, including (1) changes in interest rates or credit ratings in the United States or any other country; (2) changes in exchange rates for the currencies of any country; or (3) any suspension of trading in securities (whether equity, debt, derivative or hybrid securities) generally on any securities exchange or over-the-counter market operating in the United States or any other country or region in the world; or (vii) any changes (after the date of this Agreement) in GAAP or applicable Legal Requirements, to the extent that such changes do not have a disproportionate impact on Invitae.

*Invitae SEC Documents* shall have the meaning set forth in Section 3.4(a).

**IRS** shall mean the United States Internal Revenue Service.

IT Assets shall mean computers, storage media, databases, applications, websites, software, servers, workstations, routers, hubs, switches, circuits, networks, computer network equipment or systems, data communications lines, and all other information technology equipment including parts of any of the foregoing such as firmware, screens, terminals, disks, cabling, related infrastructure, and other peripheral and associated electronic equipment and services owned, controlled, used, or held for use by or on behalf of any Acquired Corporation.

*Key Employee* shall mean the Chief Executive Officer and the Chief Financial Officer of CombiMatrix-as well as employee who reports directly to either such officer.

**Knowledge** shall mean, with respect to an individual, that such individual is actually aware of the relevant fact or such individual would reasonably be expected to know such fact in the ordinary course of the performance of the individual s employee or professional responsibility. Any Person that is an Entity shall have Knowledge if any officer or director of such Person as of the date such knowledge is imputed has Knowledge of such fact or other matter, after reasonable inquiry.

**LDTs** shall have the meaning set forth in Section 2.11(j).

**Legal Proceeding** shall mean any action, suit, litigation, arbitration, proceeding (including any civil, criminal, administrative, investigative or appellate proceeding), hearing, inquiry, audit, examination or investigation commenced, brought, conducted or heard by or before, or otherwise involving, any court or other Governmental Body or any arbitrator or arbitration panel.

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**Legal Requirement** shall mean any federal, state, foreign, local or municipal or other law, statute, constitution, principle of common law, resolution, ordinance, code, edict, decree, rule, regulation, ruling or requirement issued, enacted, adopted, promulgated, implemented or otherwise put into effect by or under the authority of any Governmental Body (or under the authority of the NYSE or the Financial Industry Regulatory Authority).

*Liability* shall have the meaning set forth in Section 2.10.

*Merger* shall have the meaning set forth in the recitals.

*Merger Consideration* shall have the meaning set forth in Section 1.5(a).

*Merger Proposal* shall have the meaning set forth in the recitals.

*Merger Sub* shall have the meaning set forth in the Preamble.

*Minimum Warrant Exchange Participation* shall have the meaning set forth in Section 5.1(b).

**Multiemployer Plan** shall mean (A) a multiemployer plan, as defined in Section 3(37) or 4001(a)(3) of ERISA, or (B) a plan which if maintained or administered in or otherwise subject to the laws of the United States would be described in paragraph (A).

*Multiple Employer Plan* shall mean (A) a multiple employer plan within the meaning of Section 413(c) of the Code or Section 3(40) of ERISA, or (B) a plan which if maintained or administered in or otherwise subject to the laws of the United States would be described in paragraph (A).

**NASDAQ** shall mean The Nasdaq Stock Market.

**Net Cash** shall mean the *sum* of the following:

- (a) CombiMatrix s current assets (*i.e.*, cash and cash equivalents (inclusive of any cash resulting from exercises of CombiMatrix Options or CombiMatrix Series F Warrants), marketable securities, short-term investments, accounts receivable (but less allowance for doubtful accounts), deposits (to the extent refundable to CombiMatrix), supplies and prepaid expenses and other current assets (excluding deferred tax assets), in each case determined in a manner consistent with this Agreement or the manner, if applicable, in which such items were historically determined and in accordance with CombiMatrix s Audited Financial Statements and Unaudited Interim Balance Sheet, *minus*
- (b) the sum of CombiMatrix s accounts payable, accrued expenses and other current liabilities (other than accrued expenses listed below and deferred tax liabilities), capital lease obligations, secured promissory note payable and all other liabilities (including any amounts payable for the CombiMatrix Warrant Repurchase, any amounts payable in satisfaction of CombiMatrix s obligations under Section 5.6(c), and any amounts that will become payable to participants pursuant to CombiMatrix s Restated Executive Change of Control Severance Plan), in each case determined in a manner consistent with this Agreement to the extent applicable or the manner, if applicable, in which such items were historically determined and in accordance with CombiMatrix s Audited Financial Statements and Unaudited Interim Balance Sheet, *minus*

- (c) the amount of \$250,000, minus
- (d) without double counting if otherwise included above, any unpaid fees and expenses (including any attorney s, accountant s, financial advisor s or finder s fees) incurred by CombiMatrix or any of its Subsidiaries in connection with this Agreement and the Contemplated Transactions or for which CombiMatrix or any of its Subsidiaries is otherwise liable, *minus*

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- (e) without double counting if otherwise included above, all amounts payable to any of CombiMatrix s employees, officers, directors, consultants, advisors and representatives in connection with this Agreement and the Contemplated Transactions (including pursuant to the CombiMatrix Transaction Bonus Plan), regardless of whether any recipient agrees to accept any portion of any such payment in equity (such as RSUs for shares of Invitae Common Stock pursuant to a CombiMatrix Transaction Bonus Payout Agreement) or cash, *minus*
- (f) any fees and expenses payable by CombiMatrix pursuant to Section 1.6(e), plus or minus
- (g) the amount of any reimbursement owed to, or owed by, CombiMatrix pursuant to <u>Section 9.3(a)</u>. *Net Cash Calculation* shall have the meaning set forth <u>in Section 1.6(a)</u>.

*Net Cash Schedule* shall have the meaning set forth in Section 1.6(a).

**NYSE** shall have the meaning set forth in Section 3.2(b).

**OFAC** shall have the meaning set forth in Section 2.11(o).

*Offer Documents* shall have the meaning set forth in Section 5.1(b).

*Open Source Software* shall mean any software that is licensed pursuant to: (i) any license or other Contract that is approved by the Open Source Initiative and listed at http://www.opensource.org/licenses, which licenses include all versions of the GNU General Public License (GPL), the GNU Lesser General Public License (LGPL), the GNU Affero GPL, the BSD license, the MIT license, the Eclipse Public License, the Common Public License, the Mozilla Public License, and the Artistic License; or (ii) any license or other Contract under which software or other materials are distributed or licensed as free software, open source software, public source code, freeware, shareware or an similar terms.

*Ordinary Course of Business* shall mean such actions taken in the ordinary course of a Party s normal operations and consistent with its past practices, and with respect to CombiMatrix for periods following the date of this Agreement consistent with any operating plan of CombiMatrix delivered to Invitae.

*Oxford Consent* shall have the meaning set forth in Section 7.8.

Party or Parties shall mean CombiMatrix, Merger Sub and Invitae.

**Payment Programs** shall have the meaning set forth in Section 2.11(m).

**PCI DSS** shall mean the Payment Card Industry Data Security Standard, issued by the Payment Card Industry Security Standards Council, as may be revised from time to time.

**Person** shall mean any individual, Entity or Governmental Body.

**Personal Information** shall mean, collectively (i) a natural person s name, street address, telephone number, e-mail address, photograph, social security number or tax identification number, driver s license number, passport number, credit card number, bank information, or customer or account number, biometric identifiers, health or genetic

information, biological sample or any other piece of information that allows for the identification of that person or that person s device, (ii) any other information defined as personal data, personally identifiable information, individually identifiable health information, protected health information, or personal information or any similar or comparable term under any Legal Requirement, or (iii) any information that is covered by the PCI DSS.

**PII Consents** shall have the meaning set forth in Section 2.11(p).

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**Pillsbury** shall have the meaning set forth in Section 5.1(a).

**Pre-Closing Period** shall have the meaning set forth in Section 4.1.

**Proxy Statement/Prospectus** shall mean the prospectus to be provided to CombiMatrix s stockholders in connection with the CombiMatrix Stockholders Meeting and the shares of Invitae Common Stock to be issued in the Merger.

**Registration Statements** shall mean the Form S-4 Merger Registration Statement and the Form S-4 Warrant Exchange Offer Registration Statement.

**Representatives** shall mean directors, officers, other employees, agents, attorneys, accountants, advisors and representatives.

**Required CombiMatrix Stockholder Vote** shall have the meaning set forth in Section 2.19.

**Response Date** shall have the meaning set forth in Section 1.6(b).

**Restricted Parties** shall have the meaning set forth in Section 2.11(o).

**RSU** shall mean restricted stock unit.

Sarbanes-Oxley Act shall mean the Sarbanes-Oxley Act of 2002, as it may be amended from time to time.

**SDN List** shall have the meaning set forth in Section 2.11(o).

**SEC** shall mean the United States Securities and Exchange Commission.

**Securities Act** shall mean the Securities Act of 1933, as amended.

**Security Risk Assessments** shall have the meaning set forth in Section 2.11(t).

**SSI List** shall have the meaning set forth in Section 2.11(o).

**Stockholder** shall mean a stockholder of CombiMatrix, and **Stockholders** shall mean all stockholders of CombiMatrix.

**Stradling** shall have the meaning set forth in Section 5.1(a).

**Subsequent Transaction** shall mean any Acquisition Transaction that results or would result in any third party beneficially owning securities of CombiMatrix representing more than fifty percent (50%) of the voting power of the outstanding securities of CombiMatrix or owning or exclusively licensing tangible or intangible assets representing more than fifty percent (50%) of the fair market value of the income-generating assets of CombiMatrix and its Subsidiaries, taken as a whole; however, notwithstanding the foregoing, Subsequent Transaction shall not include any equity or debt financing entered into by CombiMatrix for bona fide capital raising purposes.

An entity shall be deemed to be a *Subsidiary* of another Person if such Person directly or indirectly owns or purports to own, beneficially or of record, (a) an amount of voting securities of other interests in such entity that is sufficient to enable such Person to elect at least a majority of the members of such entity s board of directors or other governing

body, or (b) at least 50% of the outstanding equity, voting, beneficial or financial interests in such Entity.

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Superior Offer shall mean a bona fide written offer by a third party to enter into (i) a merger, consolidation, amalgamation, share exchange, business combination, issuance of securities, acquisition of securities, reorganization, recapitalization, tender offer, exchange offer or other similar transaction as a result of which either (A) CombiMatrix s stockholders prior to such transaction in the aggregate cease to own at least 50% of the voting securities of the entity surviving or resulting from such transaction (or the ultimate parent entity thereof) or (B) in which a Person or group (as defined in the Exchange Act and the rules promulgated thereunder) directly or indirectly acquires beneficial or record ownership of securities representing 50% or more of CombiMatrix s capital stock or (ii) a sale, lease, exchange transfer, license, acquisition or disposition of any business or other disposition of at least 50% of the assets of CombiMatrix and its Subsidiaries, taken as a whole, in a single transaction or a series of related transactions that (in each case of the foregoing clauses (i) and (ii)): (a) was not obtained or made as a direct or indirect result of a breach of (or in violation of) this Agreement (including Section 4.4); and (b) is on terms and conditions that the CombiMatrix Board of Directors determines, in its reasonable, good faith judgment, after obtaining and taking into account such matters that it deems relevant following consultation with its outside legal counsel and financial advisor, if any: (x) is reasonably likely to be more favorable, from a financial point of view, to CombiMatrix s stockholders than the terms of the Merger; and (y) is reasonably capable of being consummated; provided, however, that any such offer shall not be deemed to be a Superior Offer if any financing required to consummate the transaction contemplated by such offer is not committed and is not reasonably capable of being obtained, or if the consummation of such transaction is contingent on any such financing being obtained.

**Surviving Corporation** shall have the meaning set forth in Section 1.1.

*Tax* shall mean any federal, state, local, foreign or other tax, including any income tax, franchise tax, capital gains tax, gross receipts tax, value-added tax, surtax, estimated tax, unemployment tax, national health insurance tax, excise tax, ad valorem tax, transfer tax, stamp tax, sales tax, use tax, property tax, business tax, withholding tax, payroll tax, customs duty, alternative or add-on minimum or other tax of any kind whatsoever, and including any fine, penalty, addition to tax or interest, whether disputed or not.

*Tax Return* shall mean any return (including any information return), report, statement, declaration, estimate, schedule, notice, notification, form, election, certificate or other document or information, and any amendment or supplement to any of the foregoing, filed with or submitted to, or required to be filed with or submitted to, any Governmental Body in connection with the determination, assessment, collection or payment of any Tax or in connection with the administration, implementation or enforcement of or compliance with any Legal Requirement relating to any Tax.

**Terminated CombiMatrix Options** shall have the meaning set forth in Section 5.4(a).

**Termination Fee** shall have the meaning set forth in Section 9.3(b).

Third Party Expenses shall have the meaning set forth in Section 9.3(c).

*Trade Control Laws* shall have the meaning set forth in Section 2.11(o).

**Treasury Regulations** shall mean the United States Treasury regulations promulgated under the Code.

*Warrant Exchange Offer* shall have the meaning set forth in Section 5.1(b).

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### **EXHIBIT B-1**

### TRANSACTION BONUS PAYOUT AGREEMENT

## [Executives]

This TRANSACTION BONUS PAYOUT AGREEMENT (this *Agreement*) is entered into as of July 31, 2017 by and among Invitae Corporation, a Delaware corporation ( *Invitae*), CombiMatrix Corporation, a Delaware corporation ( *CombiMatrix*), and [] (the *Recipient*). For purposes of this Agreement, the *Invitae Group* refers to Invitae, CombiMatrix and their respective affiliates.

WHEREAS, on December 2, 2015, CombiMatrix adopted the CombiMatrix Transaction Bonus Plan (the *Transaction Bonus Plan*) pursuant to which certain employees of CombiMatrix may receive transaction bonuses on a Qualifying Transaction (as defined in the Transaction Bonus Plan);

WHEREAS, the merger (the *Merger*) of Coronado Merger Sub, Inc., a Delaware corporation ( *Merger Sub*), with and into CombiMatrix, with CombiMatrix continuing as the surviving corporation, pursuant to that Agreement and Plan of Merger, dated as of the date hereof (the *Merger Agreement*), by and among Invitae, CombiMatrix and Merger Sub, shall constitute a Qualifying Transaction under the Transaction Bonus Plan;

WHEREAS, one or more Recipients concurrently herewith have entered into Independent Contractor Agreements with Invitae to become effective as of the Closing Date (each an *Independent Contractor Agreement*); and

WHEREAS, Invitae and CombiMatrix desire to set forth herein the terms and conditions pursuant to which the Recipient s right to be paid a transaction bonus as defined in the Transaction Bonus Plan (the *Transaction Bonus*) shall be settled in connection with the Merger.

NOW, THEREFORE, in consideration of the covenants and premises described in this Agreement and other valuable consideration, the sufficiency of which the parties hereby acknowledge, the parties, intending to be legally bound, agree as follows:

- 1. <u>Effective Date</u>. This Agreement is effective as of the date on which the closing of the Merger occurs (such date, the *Closing Date*). In the event that the Merger Agreement is terminated in accordance with its terms, this Agreement shall automatically be deemed null and void and of no further force and effect.
- 2. Transaction Bonus. Subject to the terms and conditions of this Agreement and the Transaction Bonus Plan as modified herein, Invitae shall grant the Recipient restricted stock units ( RSUs ) with respect to shares of Invitae Common Stock (as defined in the Merger Agreement) on the Closing Date (or as soon as practicable thereafter). The number of shares of Invitae Common Stock subject to such RSUs shall be equal to the dollar amount of the transaction bonus awarded to the Recipient under the Transaction Bonus Plan divided by the Invitae Trailing Average Share Value (as defined in the Merger Agreement). Such RSUs shall (a) be evidenced by, and subject to the terms of, an RSU award agreement in the form attached hereto as Exhibit A (the RSU Award Agreement ); (b) be settled in shares of Invitae Common Stock; and (c) vest upon the Closing Date and be settled in three equal monthly installments following the Closing Date in accordance with Section 5(j) of this Agreement, subject to acceleration of settlement upon a Change in Control (as defined in Invitae s 2015 Stock).

Incentive Plan); provided, however, that if the Recipient has an Independent Contractor Agreement in effect as of the Closing Date, then the shares shall vest as follows:

(i) On the Closing Date (or as soon thereafter as practical, subject to Section 5(j) of this Agreement), RSUs represented by (x) the dollar amount of the transaction bonus awarded to Recipient under the Transaction Bonus Plan minus \$[817,834-Mark/\$40,000-Scott], divided by (y) the Invitae Trailing Average Share Value shall vest and be settled; and

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(ii) On the eight-month anniversary of the Closing Date, RSUs represented by \$[817,834-Mark/\$40,000-Scott] divided by the Invitae Trailing Average Share Value shall vest and be settled so long as the Recipient has rendered services as required by the Independent Contractor Agreement through the eight-month anniversary of the Closing Date except that, in the event of a Change in Control (as defined in Invitae s 2015 Stock Incentive Plan) or a termination pursuant to Section 9(a), 9(c) or 9(e) of the Independent Contractor Agreement, all unvested RSUs shall vest immediately and shall be settled within five days of the consummation of the Change in Control or termination of the Independent Contractor Agreement, as applicable.

The grant of RSUs in accordance with this Agreement shall constitute payment of the Transaction Bonus in full settlement of all of the Recipient s rights under the Transaction Bonus Plan, without regard to whether the Recipient ultimately earns or forfeits all or any portion of the RSUs subject to the grant. To the extent the shares of Invitae Common Stock underlying the RSUs are not covered by a registration statement that is effective before the Closing Date under the Securities Act of 1933, as amended (the *Act*), and if the Recipient has an Independent Contractor Agreement in effect as of the Closing Date, Invitae will use commercially reasonable efforts to file a registration statement on Form S-8 with the Securities and Exchange Commission for such shares within fifteen days after the Closing Date, and if the Recipient does not have an Independent Contractor Agreement in effect as of the Closing Date and Form S-8 is not otherwise available for such registration, Invitae will use commercially reasonable efforts to register the shares for resale as soon as reasonably practicable on a registration statement on Form S-3 or another appropriate form in accordance with the Act.

- 3. <u>Conditions to Receipt of Transaction Bonus</u>. The Recipient s right to receive RSUs is conditioned on the Recipient s execution of this Agreement and the Recipient s continued employment with CombiMatrix until immediately prior to the Closing Date.
- 4. <u>Tax Withholding</u>. Notwithstanding any provision herein to the contrary, prior to settlement of any RSUs the Recipient shall pay, or make arrangements satisfactory to Invitae to satisfy, all associated tax withholding and payment obligations in accordance with the terms of the RSU Award Agreement.

## 5. Miscellaneous.

- (a) Entire Agreement; Amendment. This Agreement and the Transaction Bonus Plan embody the entire agreement and understanding of the parties in respect of its subject matter and supersede all prior agreements and understandings between the parties with respect to such subject matter (whether or not written). In the event of a conflict between the provisions of this Agreement and the Transaction Bonus Plan, the provisions of this Agreement shall control and the Transaction Bonus Plan shall be deemed amended with the consent of the Recipient accordingly. This Agreement may be amended or modified only by written agreement signed by the parties.
- (b) *No Contract for Continuing Services*. This Agreement shall not be construed as creating any contract for continued services between the Invitae Group and the Recipient and nothing herein contained shall give the Recipient the right to be retained as an employee, consultant or director of the Invitae Group.

- (c) *No Transfers*. The Recipient s rights in the Transaction Bonus may not be assigned or transferred other than to the Recipient s heirs by reason of the Recipient s death.
- (d) Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State of Delaware, without regard to any principles of conflict of laws of such state that would require the application of the laws of any other jurisdiction.
- (e) *Enforceability*. If any portion or provision of this Agreement shall to any extent be declared illegal or unenforceable by a court of competent jurisdiction, then the remainder of this Agreement, or the application of such portion or provision in circumstances other than those as to which it is so declared illegal or unenforceable, shall not be affected thereby, and each portion and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

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- (f) Waiver. No waiver of any provision hereof shall be effective unless made in writing and signed by the waiving party. The failure of any party to require the performance of any term or obligation of this Agreement, or the waiver by any party of any breach of this Agreement, shall not prevent any subsequent enforcement of such term or obligation or be deemed a waiver of any subsequent breach.
- (g) Successors; Assignability. This Agreement shall inure to the benefit of and be binding upon the parties, their respective successors, executors, administrators, heirs and permitted assigns; nothing in this Agreement, express or implied, is intended to confer on any person or entity other than the parties and their respective successors and assigns any rights, remedies, obligations or liabilities under or by reason of this Agreement. The Recipient may not assign, delegate or otherwise transfer any of the Recipient s rights or obligations under this Agreement. Invitae or CombiMatrix may transfer or assign, in whole or from time to time in part, to one or more of its affiliates, or to any successor to one or more of its businesses, its rights or obligations under this Agreement without the prior written consent signed by the Recipient.
- (h) *Counterparts*. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.
- (i) Section 280G. In the event that the payments and other benefits provided for in this Agreement or otherwise payable to the Recipient (i) constitute parachute payments within the meaning of Section 280G of the Internal Revenue Code of 1986, as amended, and the regulations issued thereunder (the Code), and (ii) would be subject to the excise tax imposed by Section 4999 of the Code, then the Recipient s payments and benefits under this Agreement or otherwise payable to the Recipient outside of this Agreement shall be either delivered in full (without CombiMatrix or Invitae paying any portion of such excise tax or any other additional amount), or delivered as to 2.99 times of the Recipient s base amount (within the meaning of Section 280G of the Code) so as to result in no portion of such payments and benefits being subject to such excise tax, whichever of the foregoing amounts, taking into account the applicable federal, state and local income taxes and such excise tax, results in the receipt by the Recipient on an after-tax basis of the greatest amount of payments and benefits.
- (j) Section 409A. This Agreement is intended to comply with Section 409A of the Code (Section 409A) or an exemption therefrom and shall be interpreted, construed and administered in accordance with Section 409A or such exemption. To the extent that any amounts payable hereunder are determined to constitute nonqualified deferred compensation within the meaning of Section 409A, such amounts shall be subject to such additional rules and requirements in order to comply with Section 409A and the settlement of any such amounts may not be accelerated or delayed except to the extent permitted by Section 409A. All vested payments shall be paid or settled by March 15 of the subsequent year and provided further that the Recipient shall have no discretion to designate the timing of such payments or settlements for purposes of Treasury Regulation Section 1.409A-3(b). The Invitae Group makes no representation or warranty and shall have no liability to the Recipient or any other person if any payments under any provisions of this Agreement are determined to constitute deferred compensation under Section 409A that are subject to the 20% tax under Section 409A.

(k) *Cooperation*. The parties shall cooperate reasonably with each other, at the request of any party, to modify the arrangements contemplated by this Agreement so long as any such modified arrangements do not leave any party in a worse position (in such party s sole discretion).

[Signature page follows]

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IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date first written above.

## **COMBIMATRIX CORPORATION**

By

Name:

Title:

## INVITAE CORPORATION

By

Name:

Title:

## **RECIPIENT**

Name:

Attachment: Exhibit A Form of RSU Award Agreement

[Signature Page to Executive Officer Transaction Bonus Payout Agreement]

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## **EXHIBIT A**

## INVITAE CORPORATION

## NOTICE OF RESTRICTED STOCK UNIT AWARD

You have been granted the following Restricted Stock Units representing shares of common stock ( Shares ) of Invitae Corporation (the Company ).

Recipient	INV	VITAE CORPORATION
this Award (including without limit and all other documents that the Co limitation, annual reports and prox documents by posting them on a we	ation, prospectuses recompany is required to y statements). You also be the maintained by the	pany may deliver by e-mail all documents relating to quired by the Securities and Exchange Commission) deliver to its security holders (including without o agree that the Company may deliver these he Company or by a third party under contract with a website, it will notify you by e-mail.
this Restricted Stock Unit Award is	granted under and go	epresentative below, you and the Company agree that overned by the term and conditions of the attached Transaction Bonus Payout Agreement which are made
		to the vesting schedule set forth in Section 2 of that certain Transaction Bonus Payout Agreement dated [ ], 2017, entered into between the Company and the Recipient (the Transaction Bonus Payout Agreement ), a copy of which is attached hereto.
Vesting Schedule:		Vesting of this award (this Award ) shall occur pursuant to the vesting schedule set forth in Section 2 of that
Vesting Commencement Date:		[EFFECTIVE DATE]
Grant Date:		[EFFECTIVE DATE]
Total Number of Restricted Stock Uni	ts Granted:	[SHARES GRANTED]
Name of Recipient:		[NAME]

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By:

Name:

Name: Title:

INVITAE CORPORATION

NOTICE OF RESTRICTED STOCK UNIT AWARD

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### INVITAE CORPORATION

## RESTRICTED STOCK UNIT AGREEMENT

Payment for Restricted Stock Units

No cash payment is required for the Restricted Stock Units you receive. You are receiving the Restricted Stock Units pursuant to the Transaction Bonus Payout Agreement in consideration for services rendered by you.

Vesting

The Restricted Stock Units that you are receiving may vest in one or more installments as shown in the Notice of Restricted Stock Unit Award and the Transaction Bonus Payout Agreement referenced therein.

Nature of Restricted Stock Units Your Restricted Stock Units are mere bookkeeping entries. They represent only the Company s unfunded and unsecured promise to issue Shares on a future date. As a holder of Restricted Stock Units, you have no rights other than the rights of a general creditor of the Company.

No Voting Rights or Dividends

Your Restricted Stock Units carry neither voting rights nor rights to dividends. You, or your estate or heirs, have no rights as a stockholder of the Company unless and until your Restricted Stock Units are settled by issuing Shares. No adjustments will be made for dividends or other rights if the applicable record date occurs before your Shares are issued.

**Restricted Stock Units Nontransferable**  You may not sell, transfer, assign, pledge or otherwise dispose of any Restricted Stock Units. For instance, you may not use your Restricted Stock Units as security for a loan. If you attempt to do any of these things, your Restricted Stock Units will immediately become invalid.

**Settlement of Restricted Stock Units** 

Each of your vested Restricted Stock Units will be settled as provided in the Transaction Bonus Payout Agreement; provided, however, that if a settlement date does not fall on a permissible trading day for the Shares, settlement shall be deferred to the first permissible trading day for the Shares, but in no event later than December 31 of the calendar year in which the Restricted Stock Units are no longer subject to a substantial risk of forfeiture for purposes of Section 409A (as defined below).

For purposes of this Agreement, permissible trading day means a day that satisfies all of the following requirements: (a) the exchange on which the Shares are traded is open for trading on that day; (b) you are permitted to sell Shares on that day without incurring liability under Section 16(b) of the Securities Exchange Act of 1934, as amended (the Exchange Act ), (c) either (i) you are not in possession of material non-public information that would make it illegal for you to sell Shares on that day under Rule 10b-5 under the Exchange Act or (ii) Rule 10b5-1 under the Exchange Act would apply to the sale; (d) you are permitted to sell Shares on that day under such written insider trading policy as may have been adopted by the Company; and (e) you are not prohibited from selling Shares on that day by a written agreement between you and the Company or a third party.

At the time of settlement, you will receive one Share for each vested Restricted Stock Unit; provided, however, that no fractional Shares will be issued or delivered pursuant to this Agreement, and the Company will determine whether cash will be paid in lieu of any fractional Share or whether such fractional Share and any rights thereto will be canceled, terminated or otherwise eliminated.

INVITAE CORPORATION

RESTRICTED STOCK UNIT AGREEMENT

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In addition, Shares shall not be issued under this Agreement unless the issuance and delivery of such Shares complies with (or is exempt from) all applicable requirements of law, including (without limitation) the Securities Act of 1933, as amended, the rules and regulations promulgated thereunder, state securities laws and regulations and the regulations of any stock exchange on which the Company securities may then be listed, and the Company has obtained the approval or favorable ruling from any governmental agency which the Company determines is necessary or advisable. The Company shall not be liable to you or other persons as to (a) the non-issuance or sale of Shares as to which the Company has not obtained from any regulatory body having jurisdiction the authority deemed by the Company securities are consequences expected, but not realized, by you or other person due to the receipt, vesting or settlement of this Award.

# Withholding Taxes and Stock Withholding

Regardless of any action the Company and/or the subsidiary or affiliate employing you or for which you are providing consulting services to takes with respect to any or all income tax, social insurance, payroll tax, payment on account or other tax-related withholding ( Tax-Related Items ), you acknowledge that the ultimate liability for all Tax-Related Items legally due by you is and remains your responsibility and that the Company and/or its subsidiary or affiliate (1) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of this Award, including the settlement of the Restricted Stock Units, the subsequent sale of Shares acquired pursuant to such settlement and the receipt of any dividends; and (2) does not commit to structure the terms of this Award or any aspect of the Restricted Stock Units to reduce or eliminate your liability for Tax-Related Items.

Prior to the settlement of your Restricted Stock Units, you shall pay or make adequate arrangements satisfactory to the Company and/or the subsidiary or affiliate to satisfy all withholding and payment on account obligations of the Company and/or the subsidiary or affiliate. In this regard, if such withholding is legally required, you authorize the Company and/or the subsidiary or affiliate to withhold any applicable Tax-Related Items legally payable by you from your wages or other cash compensation paid to you by the Company and/or the subsidiary or affiliate. With the Company s consent, these arrangements may also include, if permissible under local law, (a) withholding Shares that otherwise would be issued to you when your Restricted Stock Units are settled, provided that the Company only withholds the amount of Shares necessary to satisfy the minimum statutory withholding amount, (b) having the Company withhold taxes from the proceeds of the sale of the Shares, either through a voluntary sale or through a mandatory sale arranged by the Company (on your behalf pursuant to this authorization), or (c) any other arrangement approved by the Company. The fair market value of these Shares, determined as of the effective date when taxes otherwise would have been withheld in cash, will be applied as a credit against the withholding taxes. Finally, you shall pay to the Company or the subsidiary or affiliate any amount of Tax-Related Items that the Company or the subsidiary or affiliate may be required to withhold as a result of your acquisition of Shares that cannot be satisfied by the means previously described. The Company may refuse to deliver the Shares if you fail to comply with your obligations in connection with the Tax-Related Items as described in this section, and your rights to the Shares shall be forfeited if you do not comply with such obligations on or

INVITAE CORPORATION

RESTRICTED STOCK UNIT AGREEMENT

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# before December 31 of the calendar year in which the applicable settlement date for the Restricted Stock Units occurs.

## **No Retention Rights**

Neither your Award nor this Agreement gives you the right to be employed or retained by the Company or any subsidiary or affiliate of the Company to provide services in any capacity. The Company and its subsidiaries and affiliates reserve the right to terminate your employment or service at any time, with or without cause.

# Adjustments; Merger and Reorganization

The number of Restricted Stock Units covered by this Award shall be subject to adjustment in the event of a stock split, a stock dividend or a similar change in Company Shares. The restrictions described above will apply to all new, substitute or additional Restricted Stock Units or securities to which you are entitled by reason of this Award.

In the event that the Company is a party to a merger or other reorganization, this Award shall, subject to the terms of the Transaction Bonus Payout Agreement, be subject to the agreement of merger or reorganization.

## **Successors and Assigns**

Except as otherwise provided in this Agreement, every term of this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, legatees, legal representatives, successors, transferees and assigns.

## **Notice**

Any notice required or permitted under this Agreement shall be given in writing and shall be deemed effectively given upon the earliest of personal delivery, receipt or the third full day following mailing with postage and fees prepaid, addressed to the other party hereto at the address last known in the Company s records or at such other address as such party may designate by ten (10) days advance written notice to the other party hereto.

# Section 409A of the Code

To the extent this Agreement is subject to and not exempt from Section 409A of the Internal Revenue Code of 1986, as amended, and the regulations issued thereunder (Section 409A), this Agreement is intended to comply with Section 409A, and its provisions shall be interpreted in a manner consistent with such intent. You acknowledge and agree that changes may be made to this Agreement to avoid adverse tax consequences to you under Section 409A.

# **Applicable Law and Choice of Venue**

This Agreement will be interpreted and enforced under the laws of the State of Delaware (without regard to their choice-of-law provisions). For purposes of litigating any dispute that arises directly or indirectly from the relationship of the parties evidenced by this Award or the Agreement, the parties hereby submit to and consent to the exclusive jurisdiction of the State of California and agree that such litigation shall be conducted only in the courts of Santa Clara County, California, or the federal courts for the United States for the Northern District of California, and no other courts, where this grant is made and/or to be performed.

### Miscellaneous

You understand and acknowledge that (i) the grant of your Award does not in any way create any contractual or other right to receive additional grants of awards (or benefits in lieu of awards) at any time or in any amount and (ii) all determinations with respect to any additional grants, including (without limitation) the times when awards will be granted, the number of Shares subject to the awards, and the vesting schedule, will be at the sole discretion of the Company.

The attached Notice, this Agreement and the Transaction Bonus Payout Agreement constitute the entire understanding between you and the Company regarding this

INVITAE CORPORATION

RESTRICTED STOCK UNIT AGREEMENT

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Award. Any prior agreements, commitments or negotiations concerning this Award are superseded. This Agreement may be amended only by another written agreement, signed by you and the Company.

Except as otherwise provided in the Transaction Bonus Payout Agreement, the value of this Award shall be an extraordinary item of compensation outside the scope of your employment or consulting contract, if any, and shall not be considered a part of your normal or expected compensation for purposes of calculating severance, resignation, redundancy or end-of-service payments, bonuses, long-service awards, pension or retirement benefits or similar payments.

You hereby authorize the Company or any subsidiary or affiliate to disclose among and between themselves any information regarding your employment or consulting services and the nature and amount of your compensation, as the Company deems necessary or appropriate.

You consent to the collection, use and transfer of your personal data as described in this subsection. You understand and acknowledge that the Company and the Company s other Subsidiaries and affiliates hold certain personal information regarding you, including (without limitation) your name, home address, telephone number, date of birth, social insurance number of other government identification number, salary, nationality, job title, any Shares or directorships held in the Company and details of all awards or any other entitlements to Shares awarded, canceled, exercised, vested, unvested or outstanding in your favor (the Data ). You further understand and acknowledge that the Company, its Subsidiaries and/or its affiliates will transfer Data among themselves as necessary and that the Company and/or any subsidiary may each further transfer Data to any third party assisting the Company. You understand and acknowledge that the recipients of Data may be located in the United States or elsewhere, and that the laws of a recipient s country of operation (e.g., the United States) may not have equivalent privacy protections as local laws where you reside or work. You authorize such recipients to receive, possess, use, retain and transfer Data, in electronic or other form, including a transfer to any broker or other third party with whom you elect to deposit Shares of such Data. You may, at any time, view the Data, require any necessary modifications of Data, make inquiries about the treatment of Data or withdraw the consents set forth in this subsection by contacting the Human Resources Department of the Company in writing.

BY SIGNING THE ATTACHED NOTICE, YOU AGREE TO ALL OF THE TERMS

AND CONDITIONS DESCRIBED ABOVE.

INVITAE CORPORATION

RESTRICTED STOCK UNIT AGREEMENT

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### **EXHIBIT B-2**

### TRANSACTION BONUS PAYOUT AGREEMENT

## [Outside Directors]

This TRANSACTION BONUS PAYOUT AGREEMENT (this *Agreement*) is entered into as of July 31, 2017 by and among Invitae Corporation, a Delaware corporation ( *Invitae*), CombiMatrix Corporation, a Delaware corporation ( *CombiMatrix*), and [] (the *Recipient*). For purposes of this Agreement, the *Invitae Group* refers to Invitae, CombiMatrix and their respective affiliates.

WHEREAS, on December 2, 2015, CombiMatrix adopted the CombiMatrix Transaction Bonus Plan (the *Transaction Bonus Plan*) pursuant to which certain employees of CombiMatrix may receive transaction bonuses on a Qualifying Transaction (as defined in the Transaction Bonus Plan); and

WHEREAS, the merger (the *Merger*) of Coronado Merger Sub, Inc., a Delaware corporation ( *Merger Sub*), with and into CombiMatrix, with CombiMatrix continuing as the surviving corporation, pursuant to that Agreement and Plan of Merger, dated as of the date hereof (the *Merger Agreement*), by and among Invitae, CombiMatrix and Merger Sub, shall constitute a Qualifying Transaction under the Transaction Bonus Plan; and

WHEREAS, Invitae and CombiMatrix desire to set forth herein the terms and conditions pursuant to which the Recipient s right to be paid a transaction bonus as defined in the Transaction Bonus Plan (the *Transaction Bonus*) shall be settled in connection with the Merger.

NOW, THEREFORE, in consideration of the covenants and premises described in this Agreement and other valuable consideration, the sufficiency of which the parties hereby acknowledge, the parties, intending to be legally bound, agree as follows:

- 1. <u>Effective Date</u>. This Agreement is effective as of the date on which the closing of the Merger occurs (such date, the *Closing Date*). In the event that the Merger Agreement is terminated in accordance with its terms, this Agreement shall automatically be deemed null and void and of no further force and effect.
- 2. Transaction Bonus. Subject to the terms and conditions of this Agreement and the Transaction Bonus Plan, Invitae shall grant the Recipient unrestricted shares of Invitae Common Stock (as defined in the Merger Agreement) on the Closing Date (or as soon as practicable thereafter). The number of shares of Invitae Common Stock shall be equal to the dollar amount of the transaction bonus awarded to the Recipient under the Transaction Bonus Plan *divided by* the Invitae Trailing Average Share Value (as defined in the Merger Agreement). The grant of the unrestricted shares of Invitae Common Stock in accordance with this Agreement shall constitute payment of the Transaction Bonus in full settlement of all of the Recipient s rights under the Transaction Bonus Plan. To the extent such shares of Invitae Common Stock are not covered by a registration statement that is effective before the Closing Date under the Securities Act of 1933, as amended (the \*Act\*\*), Invitae will use commercially reasonable efforts to register the shares for resale as soon as reasonably practicable on a registration statement on Form S-3 or another appropriate form in accordance with the Act.

- 3. <u>Conditions to Receipt of Transaction Bonus</u>. The Recipient s right to receive the Transaction Bonus is conditioned on the Recipient s execution of this Agreement and the Recipient s continued service with CombiMatrix until immediately prior to the Closing Date.
- 4. [RESERVED]
- 5. Miscellaneous.
  - (a) *Entire Agreement; Amendment*. This Agreement and the Transaction Bonus Plan embody the entire agreement and understanding of the parties in respect of its subject matter and supersede all prior agreements and understandings between the parties with respect to such subject matter (whether or not

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written). In the event of a conflict between the provisions of this Agreement and the Transaction Bonus Plan, the provisions of this Agreement shall control and the Transaction Bonus Plan shall be deemed amended with the consent of the Recipient accordingly. This Agreement may be amended or modified only by written agreement signed by the parties.

- (b) *No Contract for Continuing Services*. This Agreement shall not be construed as creating any contract for continued services between the Invitae Group and the Recipient and nothing herein contained shall give the Recipient the right to be retained as an employee, consultant or director of the Invitae Group.
- (c) *No Transfers*. The Recipient s rights in the Transaction Bonus may not be assigned or transferred other than to the Recipient s heirs by reason of the Recipient s death.
- (d) Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State of Delaware, without regard to any principles of conflict of laws of such state that would require the application of the laws of any other jurisdiction.
- (e) *Enforceability*. If any portion or provision of this Agreement shall to any extent be declared illegal or unenforceable by a court of competent jurisdiction, then the remainder of this Agreement, or the application of such portion or provision in circumstances other than those as to which it is so declared illegal or unenforceable, shall not be affected thereby, and each portion and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.
- (f) Waiver. No waiver of any provision hereof shall be effective unless made in writing and signed by the waiving party. The failure of any party to require the performance of any term or obligation of this Agreement, or the waiver by any party of any breach of this Agreement, shall not prevent any subsequent enforcement of such term or obligation or be deemed a waiver of any subsequent breach.
- (g) Successors; Assignability. This Agreement shall inure to the benefit of and be binding upon the parties, their respective successors, executors, administrators, heirs and permitted assigns; nothing in this Agreement, express or implied, is intended to confer on any person or entity other than the parties and their respective successors and assigns any rights, remedies, obligations or liabilities under or by reason of this Agreement. The Recipient may not assign, delegate or otherwise transfer any of the Recipient s rights or obligations under this Agreement. Invitae or CombiMatrix may transfer or assign, in whole or from time to time in part, to one or more of its affiliates, or to any successor to one or more of its businesses, its rights or obligations under this Agreement without the prior written consent signed by the Recipient.
- (h) *Counterparts*. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

(i)

Section 409A. This Agreement is intended to comply with Section 409A of the Code and the regulations promulgated thereunder (Section 409A) or an exemption therefrom and shall be interpreted, construed and administered in accordance with Section 409A or such exemption. To the extent that any amounts payable hereunder are determined to constitute nonqualified deferred compensation within the meaning of Section 409A, such amounts shall be subject to such additional rules and requirements in order to comply with Section 409A and the settlement of any such amounts may not be accelerated or delayed except to the extent permitted by Section 409A. The Invitae Group makes no representation or warranty and shall have no liability to the Recipient or any other person if any payments under any provisions of this Agreement are determined to constitute deferred compensation under Section 409A that are subject to the 20% tax under Section 409A.

(j) Cooperation. The parties shall cooperate reasonably with each other, at the request of any party, to modify the arrangements contemplated by this Agreement so long as any such modified arrangements do not leave any party in a worse position (in such party s sole discretion).

[Signature page follows]

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IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date first written above.

### **COMBIMATRIX CORPORATION**

By

Name:

Title:

## INVITAE CORPORATION

By

Name:

Title:

### **RECIPIENT**

Name:

[Signature Page to Director Transaction Bonus Payout Agreement]

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## Annex B

### **UNITED STATES**

## SECURITIES AND EXCHANGE COMMISSION

**WASHINGTON, DC 20549** 

## **FORM 10-K**

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

FOR THE FISCAL YEAR ENDED DECEMBER 31, 2016

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

FOR THE TRANSITION PERIOD FROM

TO

Commission File Number 001-33523

### **COMBIMATRIX CORPORATION**

(Exact name of registrant as specified in its charter)

<u>DELAWARE</u> (State or other jurisdiction of 47-0899439 (I.R.S. Employer

incorporation or organization)

**Identification No.)** 

310 GODDARD, SUITE 150,

**92618** 

**IRVINE, CA** 

(Address of principal executive offices)

(Zip Code)

Registrant s telephone number, including area code: (949) 753-0624

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class Common Stock, \$0.001 par value Name of Each Exchange on Which Registered The NASDAQ Stock Market LLC

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark that disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant s knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company) Smaller reporting company Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes

As of June 30, 2016, the last business day of the registrant s most recently completed second fiscal quarter, the aggregate market value of the registrant s common stock held by non-affiliates was \$4,708,000, based upon the last reported sale price of the registrant s common stock on that date as reported by NASDAQ. For the purposes of the foregoing calculation only, all of the registrant s directors, executive officers and persons known to the registrant to hold ten percent or greater of the registrant s outstanding common stock have been excluded in that such persons may be deemed to be affiliates. This determination of affiliate status is not a determination for other purposes. The number of shares of the registrant s Common Stock, \$0.001 par value, outstanding on February 28, 2017, was 2,864,633.

#### DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant s definitive Proxy Statement for its 2017 Annual Meeting of Stockholders (the Proxy Statement), to be filed with the Securities and Exchange Commission (the SEC) pursuant to Regulation 14A not later than 120 days after the end of the fiscal year covered by this Annual Report on Form 10-K (the Form 10-K), are incorporated by reference into Part III, Items 10-14 of this Form 10-K. Except for the portions of the Proxy Statement specifically incorporated by reference in this Form 10-K, the Proxy Statement shall not be deemed to be filed as a part hereof.

## FORM 10-K ANNUAL REPORT

# FISCAL YEAR ENDED DECEMBER 31, 2016

## **COMBIMATRIX CORPORATION**

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### **PART I**

seek.

#### **CAUTIONARY STATEMENT**

This report contains forward-looking statements within the meaning of the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact included in this report, are forward-looking statements. Reference is made in particular to the description of our plans and objectives for future operations, assumptions underlying such plans and objectives, and other forward-looking statements included in this report. Such statements may be identified by the use of forward-looking terminology such as may, will. should. would. could. expect, believe. estimate. anticipate, intend. predict, with a view to, our future success depends, continue, focus, ongoing, or similar terms, variations of such terms of negative of such terms, and include, but are not limited to, statements regarding projected results of operations, capital expenditures, earnings, management s future strategic plans, development of new technologies and services, litigation, regulatory matters, market acceptance and performance of our services, the success and effectiveness of our technologies and services, our ability to retain and hire key personnel, the competitive nature of and anticipated growth in our markets, market size, market position of our services, marketing efforts and partnerships, liquidity and capital resources, our accounting estimates, and our assumptions and judgments. Such statements are based on management s current expectations, estimates and projections about our industry, management s beliefs, and certain assumptions made by us, all of which are subject to change. These forward looking statements are not guarantees of future results and are subject to a number of risks, uncertainties and assumptions that are difficult to predict and that could cause actual results to differ materially and adversely from those described in the forward-looking statements. The risks and uncertainties referred to above include, but are not limited to, our ability to grow revenue and improve gross margin; delays in achieving cash flow-positive operating results; the risk that operating expenses are not reduced or increase; the risk that test volumes and reimbursements level off or decline; the risk that payors decide to not cover our tests or to reduce the amounts they are willing to pay for our tests; the risk that we will not be able to grow our business as quickly as we need to; our ability to successfully increase the volume of our existing tests, expand the number of tests offered by our laboratory, increase the number of customers and partners and improve reimbursement for our testing; market acceptance of chromosomal microarray analysis, or CMA, as a preferred method over karyotyping; the rate of transition to CMA from karyotyping; changes in consumer demand; third-party reimbursement of CMA; our ability to attract and retain a qualified sales force and key technical personnel; our ability to successfully develop and introduce new technologies and services; rapid technological change in our markets; supply availability; our ability to bill and obtain reimbursement for highly specialized tests; the rate of growth of the in vitro fertilization, or IVF, diagnostic testing market; our ability to comply with regulations to which our business is subject, including changes in coding and reimbursement methods; legislative, regulatory and competitive developments in markets in which we and our subsidiaries operate; our limited market capitalization; our ability to obtain additional financing for working capital on acceptable terms and in a timely manner; future economic conditions; other circumstances affecting anticipated revenues and costs; and other factors as more fully disclosed in our discussion of risk factors in Item 1A of Part II of this report. These forward-looking statements speak only as of the date of this report and we expressly disclaim any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements contained herein to reflect any change in our expectations with regard thereto or any change in events, conditions, or circumstances on which any such statement is based, except as otherwise required by law. Additional factors that could cause such results to differ materially from those described in the forward-looking statements are set forth in connection with the forward-looking statements.

As used in this report, the Company, we. us and our refer to CombiMatrix Corporation and its majority-owned subsidiary companies.

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## Item 1. BUSINESS Overview

We were originally incorporated in October 1995 as a California corporation. In September 2000, we were reincorporated as a Delaware corporation and in December 2002, we merged with, and became a wholly owned subsidiary of, Acacia Research Corporation, or Acacia. In August 2007, we split off from Acacia and became publicly traded on The NASDAQ Stock Market. As a result of the split off, we ceased to be a subsidiary of, or affiliated with Acacia.

We are a family health-focused clinical molecular diagnostic laboratory specializing in pre-implantation genetic screening, prenatal diagnosis, miscarriage analysis, and pediatric developmental disorders. We strive to provide best-in-class clinical laboratory support to healthcare professionals, allowing them to maximize the clinical utility of their patients—test results and to optimize patient care. Our testing focuses on advanced technologies, including single nucleotide polymorphism, or SNP, chromosomal microarray analysis, next-generation sequencing, fluorescent *in situ* hybridization, or FISH, and high resolution chromosome analysis (also referred to as karyotyping). Our approach to testing is to offer sophisticated technology along with high quality clinical support to our ordering physicians and their patients. Our laboratory facilities and corporate headquarters are located in Irvine, California.

We also own a one-third minority interest in Leuchemix, Inc., a private drug development company focused on developing a series of compounds to address a number of oncology-related diseases.

#### **Market Overview**

We believe the molecular diagnostics market is one of the fastest-growing segments within the overall diagnostics market. Molecular diagnostics, within the context of this report, refers to the use of an individual s genetic analysis to guide medical decision-making in the area of disease diagnosis and post-diagnostic management. Innovative approaches to re-sequencing of the human genome and a growing clinical appreciation and acceptance of the utility of genomic information in guiding clinical care have enabled the rapid growth of this market. We believe that the use of molecular diagnostics will continue to grow in the coming years and will have a significant impact on the way in which medicine is practiced.

#### Genes and Proteins

The human body is composed of billions of cells, each containing DNA that encodes the basic instructions for cellular function. The complete set of an individual s DNA is called the genome, and is organized into 23 pairs of chromosomes, which are further divided into smaller regions called genes. Each gene is comprised of a specific sequence involving four nucleotides (also called bases): adenine (A), thymine (T), guanine (G) and cytosine (C). These bases are complementary to one another in that A binds only with T and G binds only with C. This interaction forms base pairs, and is responsible for the double helix structure of DNA.

The human genome has approximately three billion nucleotides. The order of these nucleotides is known as the DNA sequence. When a gene is turned on, or expressed, the genetic information encoded in the DNA is transcribed (or copied) to an intermediate form, called messenger RNA, or mRNA. The mRNA code is then translated into a specific protein product. Proteins direct most cellular functions, some of which lead to the expression of individual traits, such as eye color or height. Some level of normal variability is seen throughout the genome; however, abnormal variations in the sequence of a gene or a region of the genome, such as deletions, duplications, or point mutations, can interfere with the normal physiology of the cells in which that gene is expressed. These abnormal variations may lead to disease, a predisposition to a disease, or an atypical response to certain types of drugs.

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### Genes and Molecular Diagnostics

There are a number of methods of genetic analysis that are used in diagnostic genetic testing. These methods broadly fall into three main categories: (i) sequencing of individual base pairs of DNA; (ii) assessing DNA copy number variation; and (iii) analyzing gene expression. In some diagnostic situations, it is only necessary to analyze either a single gene or a small number of genes. This diagnostic testing can be accomplished by a number of different techniques, depending on the situation. However, when a larger number of genetic factors need to be analyzed, one of the most efficient methods of analysis is to use a CMA, also referred to as microarray, which has the ability to measure millions of DNA variations in a single experiment.

### Microarray Testing for DNA Copy Number Variation

Microarray testing assesses genome-wide copy number variation by comparing a patient s genomic DNA to a reference genome to evaluate for relative losses and gains. Some losses and gains of genomic information are known to cause genetic disorders or predispose a person to a genetic disorder. Other gains and losses are considered benign because they occur in regions of the genome that are known to show variability in the normal population and have not been associated with any disease or disease process. Microarray testing is a powerful tool because it allows for simultaneous analysis of copy number variation across the entire genome at a high resolution in a single assay, providing a comprehensive analysis of all 46 chromosomes in a single test. Unlike gene expression arrays, which evaluate mRNA levels to monitor the activity of specific genes, DNA-based microarray analysis identifies quantitative defects in the number of copies of distinct segments of genomic DNA in order to test for conditions that are known to be associated with gains and losses of chromosomal information. Throughout this report, the terms microarray and array are used interchangeably, but always refer to DNA-based microarray testing.

### Our Solutions for Molecular Diagnostics and Microarray Testing

In our laboratory facilities, we use the Illumina Infinium CytoSNP-850K BeadChip genome-wide array for our prenatal diagnostics and postnatal developmental disorders markets. Illumina s CytoSNP-850K microarray is comprised of 50 nucleotide base, or 50-mer, probes attached to individual silica beads, which self-assemble into microwells on the array s surface. Each single nucleotide polymorphism, or SNP, probe is represented with a high degree of redundancy to improve sensitivity by increasing the signal-to-noise ratio. To test a patient s genomic DNA, it is first fragmented and then amplified. These fragments are allowed to hybridize with the complementary DNA on the 50-mer probes, and after hybridization, each fragment is extended by a fluorescently-labeled nucleotide (i.e., an A, T, C, or G). The fluorescent signal is subsequently amplified and detected by a scanner, which measures the intensity of each signal and the specific nucleotide detected for each SNP. This information is then compared to a control cluster, which is generated from pooling over 100 normal genomes tested using the same assay and is then evaluated for differences in copy number (i.e., deletions and duplications), as well as for genotypic information (i.e., homozygosity versus heterozygosity). For our miscarriage analysis testing, we utilize Illumina s HumanCytoSNP-12 BeadChip array. These two microarray platforms are similar in many respects. However, as miscarriage analysis is performed primarily to identify the incorrect number of chromosomes (or aneuploidy), the slightly lower-resolution CytoSNP-12 microarray provides a more cost-effective solution.

### Next Generation Sequencing for DNA Copy Number Variation

For the IVF testing market, we utilize next generation sequencing, or NGS, technology by Illumina s VeriSeq preimplantation genetic screening, or PGS, assay to evaluate biopsied embryonic cells for whole chromosome and large segmental aneuploidies. DNA from one or more embryonic biopsied cells is amplified and then simultaneously fragmented and tagged with unique adapter sequences. Next, the samples undergo additional limited amplification,

which utilizes the adapter sequences. This process also adds index sequences which is used to pool up to 24 samples in a single library for the sequencing process. The sequence data is de-multiplexed utilizing the index sequence information, aligned to the Human Genome Reference, and the copy number variances of these sequences are visualized using third-party analysis software.

### **Diagnostics Market Segmentation**

In general, our diagnostic services and test menu are focused around our highly specialized genomic microarray and NGS technologies. While there are risks associated with billing and reimbursement of these highly specialized tests, we believe that our market position and test portfolio provide significant leverage in the rapidly growing personalized genomics/diagnostics space. Our test menu is further supplemented by what may be considered more routine tests, which allow us access to a broader, yet synergistic market. Our overall clinical market can be divided into four primary markets: (i) IVF testing, (ii) miscarriage analysis (also referred to as products of conception analysis or POC), (iii) prenatal diagnostic testing; and (iv) postnatal developmental disorder testing. Our research indicates that the global market for prenatal and newborn genetic testing is estimated to be valued at \$8.4 billion by 2019. In addition, our market analysis indicates that our potential client base for these markets can be divided into multiple general customer groups, as detailed below. Our services are therefore tailored to meet the specific needs of each of these customer groups.

### In Vitro Fertilization, or IVF, Diagnostic Testing

This market segment consists of approximately 480 IVF clinics nationwide. Testing is focused on screening embryos for aneuploidy and is primarily referred to as PGS. A significant proportion of embryos created through IVF will have an abnormal chromosomal complement, and this percentage dramatically increases with age. The goal of PGS is to determine the chromosomal make-up of each embryo to help the IVF specialist identify the most suitable embryo(s) for transfer. Based on our market research, the majority of IVF clinics in the United States do not have an in-house laboratory capable of performing this high complexity testing, and therefore must send embryo biopsy samples out to reference laboratories. Commercial laboratories providing PGS utilize a variety of technology platforms, including: real-time polymerase chain reaction (RT-PCR), array comparative genomic hybridization (aCGH), SNP microarray, and next-generation sequencing (NGS). We believe this market segment is rapidly growing due to the impact of delayed childbearing, as well as the negative impact of increased obesity on fertility. As most insurers currently do not provide coverage benefits for PGS, our business model requires billing the patient up-front for our services, typically by credit card, or billing the fertility clinic providing the IVF services, both of which eliminate third-party reimbursement risks. We estimate that the current total U.S. market for diagnostic testing in this segment to be approximately \$125 million per year.

## Miscarriage Analysis

Community-based hospital pathology laboratories and regional reference laboratories: This segment of the market is characterized by hospitals that provide basic laboratory services but do not offer complex genetic testing, such as SNP microarrays. Generally speaking, in the past decade, most community hospitals have relied on traditional methods of chromosomal analysis, such as karyotyping or FISH for miscarriage testing, which is typically sent out to a specialty laboratory. However, based on more recent, highly compelling data demonstrating the superiority of microarray testing to karyotyping, we believe significant growth opportunities exist in this segment. This segment of the market is characterized by a preponderance of clients that require us to bill the patients—insurers directly, as opposed to engaging in an institutional, direct-bill relationship. We estimate the current total U.S. market for diagnostic testing in this segment to be approximately \$300 million per year.

*Physician groups:* In the developmental genetics market, physician groups collectively constitute a significant market opportunity. This segment of the market typically outsources all of their genetic testing services, meaning they require a global level of service that necessitates processing all aspects of patient billing. The physicians that make up this market include reproductive endocrinologists, OB-GYNs and maternal fetal medicine specialists, or MFMs.

*IVF Clinics:* In this market, miscarriage analysis is performed for patients who experience a successful implantation of the embryo, but end up being unable to sustain the pregnancy.

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## Prenatal Diagnostic Testing

Physician groups: Prenatal diagnostic testing is performed on samples retrieved from specific diagnostic procedures performed during pregnancy. This testing can also be used as a confirmatory diagnostic analysis following maternal serum screening or non-invasive prenatal testing, or NIPT, or as a standalone diagnostic assay. There are two primary diagnostic procedures utilized to obtain a fetal sample: (i) chorionic villus sampling, in which a small sample of the placenta is biopsied; or (ii) amniocentesis, in which a small amount of amniotic fluid is collected. These procedures are performed by MFM specialists and some OB-GYNs. Typically, these physicians order testing directly from our laboratory. This market continues to be important as diagnostic testing during pregnancy is critical to ongoing maternal clinical care. We estimate that the current total U.S. market for diagnostic testing in this segment to be approximately \$100 million per year.

## Postnatal Diagnostic Testing

Pediatric geneticists, pediatric neurology clinics and Children s Hospitals: This market segment, particularly the Children s Hospital sector, generally has relatively comprehensive laboratory capabilities and performs most basic genetic and chromosomal testing in-house, such as chromosome analysis, FISH and PCR-based tests. These facilities typically provide comprehensive genetic counseling to their patients, which is a key component in the clinical evaluation and utilization of complex genomic assays in the pediatric diagnostic arena. Due to economic conditions, some institutions find themselves in the untenable situation of having limited access to third-party manufactured kit components and being unable to internalize such highly specialized genomic testing platforms due to lack of expertise in this area. This segment of the market typically outsources the testing completely. From a billing perspective, many of the customers in this segment prefer the direct billing model, and individual test pricing is negotiated with each institution. We estimate that the current total U.S. market for diagnostic testing in this segment to be approximately \$200 million per year.

## **Technologies**

Our objective is to provide a suite of molecular diagnostic tests utilizing the following technologies:

### SNP Microarrays

The Illumina microarray that we utilize was designed by a consortium of academic and commercial laboratories (including CombiMatrix), using content recommendations from the International Collaboration for Clinical Cytogenomics and the Sanger Institute. The resulting assay is a dense, high-resolution, whole-genome array that covers 3,262 dosage-sensitive genes that are known to be associated with genetic disorders and/or syndromes. Probe coverage is highly focused in regions of known clinical significance, with additional probes to provide coverage for the remainder of the genome, or the genomic backbone. In addition to copy number evaluation, SNP probes provide genotypic information that can indicate imprinting disorders, regions of homozygosity that may contain a disease-causing gene, shared ancestry (which can lead to an increased risk for an autosomal recessive disorder in a child), and in the case of prenatal and miscarriage analysis, identification of partial and complete molar pregnancies and maternal cell contamination.

Meta-analyses and large prospective studies have demonstrated that microarray testing provides a significant increase in the detection rate of chromosomal abnormalities compared to standard cytogenetic testing (i.e., karyotyping and

evaluation of the tips of chromosomes, called subtelomeres, by FISH). Although the percent increase varies based on the type of sample being tested (i.e., miscarriage tissue, pediatric sample, prenatal sample), the data has shown that standard chromosomal analysis misses many disorders that are easily identifiable by microarray testing. The ability to identify a specific cause for a disorder or the cause of a pregnancy loss assists not only with diagnostic management, but also with anticipatory care.

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SNP Microarray Analysis on FFPE Tissue

Although fresh tissue from a miscarriage is ideal, in some cases, it is not available. In these situations, the tissue has typically been processed by a pathology laboratory using formalin to fix the tissue and embedding it in a paraffin block for storage (referred to as formalin fixed paraffin embedded or FFPE sample). One of the major benefits of using a microarray to evaluate the fetal chromosomes instead of karyotyping is that microarrays are DNA-based, meaning they can analyze DNA from tissue whether or not it is still living, unlike karyotyping which requires fresh, living tissue. To be a comprehensive service provider, it is critical that our microarray platform be able to evaluate genomic alterations not just in fresh miscarriage tissue, but also tissue from FFPE samples. Traditionally, working with FFPE samples has proven challenging because the fixation and storing process degrades the quality of the DNA. We believe we have successfully adapted our array protocol for the optimal analysis of FFPE specimens by using a specialized process, in which the fragmented DNA is restored to longer segments by ligating free DNA ends together prior to analysis. This restoration step makes the array particularly useful in analyzing DNA samples that are of poorer quality, such as older samples or tissue that has been strongly fixed in formalin. We believe this process developed by our laboratory has allowed us to successfully analyze this challenging sample type, which is not amenable to testing by other platforms.

### Next Generation Sequencing for IVF Testing

The Illumina VeriSeq PGS kit has been stringently validated by clinical laboratories world-wide for the past four years. While aCGH technology (specifically, Illumina s 24sure microarray) was considered to be an acceptable platform for PGS testing in years past, NGS technology has since been repeatedly demonstrated to be at least as good, if not better than, aCGH in terms of sensitivity and specificity. VeriSeq PGS offers the added advantage of increased sensitivity for the presence of mosaic abnormalities (i.e. when more than one cell line is present). This is in large part due to the BlueFuse Multi Analysis software that we use, which is part of the VeriSeq PGS kit. With BlueFuse, the data processing algorithm has been optimized to create a smoother plot and a much larger dynamic range, making it easier to separate true abnormalities from noise. Not only is VeriSeq PGS able to accurately identify whole chromosome aneuploidies, it is also able to detect segmental aneuploidies of 20 Mb or greater. Segmental aneuploidies of this size are considered detrimental to embryo survival and targeted assays that are not capable of identifying segmental aneuploidies have been associated with worse outcomes compared to whole-genome assays such as VeriSeq PGS. These outcomes included: decreased implantation rates, increased miscarriage rates, and decreased ongoing pregnancy rates.

## **Our Services**

#### Overview

We utilize the latest technologies to deliver molecular diagnostic services primarily in the area of reproductive health for the diagnosis of developmental disorders associated with intellectual disability, congenital anomalies, dysmorphic features, and autism spectrum disorders. Such disorders may be diagnosed in the prenatal period, the pediatric period, or as one of the factors leading to a miscarriage or stillbirth.

Miscarriage, Intrauterine Fetal Death and Stillbirth Analysis

As with prenatal and pediatric genetics, karyotyping has long been considered the standard of care for evaluating pregnancy losses for chromosomal disorders. However, tissue from miscarriages, fetal deaths and stillbirths is difficult to culture (grow) in the laboratory, and this culturing process is required in order to perform a karyotype. Microarray analysis is particularly useful in this arena, as it does not depend on the successful growth of a cell culture. Instead, it

relies solely on the sample s DNA, which can be directly extracted from nearly any fetal tissue sample. While karyotyping fails to provide a result in between 20-40% of these cases, microarray testing is able to provide a result greater than 90% of the time. This is particularly beneficial in the analysis of first trimester pregnancy loss, as it is estimated that 50-60% of all first trimester losses are due to chromosomal abnormalities. Being able to identify the cause of the miscarriage in one out of every two women

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means that physicians are better able to provide personalized reproductive counseling and plan future pregnancy management for a much larger segment of their patient population.

## IVF: Preimplantation Genetic Screening

In IVF testing, PGS was traditionally performed at cleavage stage (Day 3) embryos by biopsying one or two cells of the early stage embryos for testing. In recent years, there has been a marked shift toward biopsying multiple cells from the trophectoderm of blastocyst (Day 5) embryos after it was demonstrated that Day 3 biopsies were much more harmful to the embryo than Day 5 biopsies. PGS is most often utilized when there is a history of reproductive failure, recurrent pregnancy loss, a previous aneuploid pregnancy, family history of aneuploidy, or advanced maternal age. We believe that approximately 25% of IVF cycles in the United States involve the use of PGS. Throughout the years, a number of different technologies have been employed, including FISH, quantitative PCR, array CGH, SNP microarray, and NGS. At present, it is not clear which of these technologies will prove optimal for routine clinical use. There are a number of studies indicating that NGS may have the greatest accuracy and the most sensitivity with respect to the detection of mosaicism; however, the clinical relevance of this information remains to be determined.

## Developmental Disorders: Prenatal and Pediatric Care

The focus of our prenatal and postnatal microarray is to assist in diagnosing genomic syndromes associated with intellectual disability, developmental delays, congenital anomalies, dysmorphic features and autism spectrum disorders.

<u>Prenatal</u>: In 2013, following the publication of a large, prospective, multicenter trial designed to compare karyotyping to microarray analysis in the prenatal population (Wapner et al.), the American College of Obstetricians and Gynecologists, or ACOG, which is the governing body for the practice of medicine in the area of obstetrics and gynecology, recommended that microarray analysis be performed *in lieu of* standard karyotyping when fetal anomalies are present on ultrasound, and any time there is a fetal death or stillbirth. The ACOG also recommended that microarray analysis be offered as an alternative to standard karyotyping for any patient undergoing a prenatal diagnostic procedure, given the increased sensitivity of microarray analysis to detect chromosomal abnormalities, even following a normal karyotype result.

CMA provides critical information for families and their physicians. In prenatal care, it allows the physician and patient to make better pregnancy management and care decisions, as well as allowing for the opportunity to provide anticipatory care with respect to abnormalities that may be associated with a specific disorder that may not yet be recognizable. Such knowledge can inform decisions about where to deliver (such as at a tertiary care center for an infant with complex abnormalities) and how aggressive to be with neonatal support in very severe cases. In pediatric care, the same is true. Once the cause of a child s development disorder and/or congenital anomalies has been identified, parents, teachers and physicians can work toward ensuring that appropriate medical and educational care decisions are made based on the child s condition. As with prenatal care, microarray analysis can assist in providing appropriate anticipatory care, such as initiating screening tests at an earlier age when the child s disorder is associated with an increased risk of a specific disorder or disease complication.

<u>Postnatal</u>: In 2014, the American Academy of Pediatrics, or AAP, released a clinical report in which it proclaimed microarray analysis as a first tier test for children with intellectual disability or global developmental delays. Prior to that, in 2010, the American College of Medical Genetics, or ACMG, which is the governing body for the utilization of genetic testing, recommended microarray testing *in lieu of* standard karyotyping children with intellectual disabilities, developmental disorders, congenital abnormalities, dysmorphic features, and autism/autism spectrum disorders based on the fact that microarray analysis *doubled* the detection rate of chromosomal abnormalities in these patients.

The Evolution of Our Clinical Microarray Testing

In 2006, we introduced our first developmental disorders microarray, which detected over 50 different genetic disorders in one multiplexed analysis. In October 2006, the U.S. Food and Drug Administration, or FDA, indicated that this test did not require approval under its guidance as it did not meet the definition of an *In Vitro* Diagnostics Multivariate Index Analysis, or IVDMIA. Following this determination, we launched our microarray test under the Clinical Laboratory Improvement Amendments of 1988, or CLIA, guidelines for use in the clinical care of patients. Since then, we have launched several upgrades of this test. Our current microarray offering is capable of identifying more than 500 recurrent syndromic and non-syndromic genetic disorders, ranging from common conditions, such as Down syndrome (trisomy 21) and DiGeorge syndrome (deletion 22q11.2), and many more rare disorders.

We actively monitor peer-reviewed publications for relevant information that allows us to analyze and modify our test reporting processes as necessary so as to include the most up-to-date clinical information for the benifit of our patients. We anticipate that these continuous improvement processess may result in either incremental improvement to our current array design, or significant changes for a new version of our arrays in the future. As an example of our publication-driven approach, as early as 2009, we began to include specific coverage of regions shown to be strongly associated with autism spectrum disorders, or ASDs, or predisposition to ASDs, long before the guidelines to testing children with autism/ASDs included microarray analysis. It is now recognized that approximately 7% of all children with an ASD have a genomic abnormality that is identifiable by microarray. This contributes to the clinical recommendation that chromosomal microarray analysis be offered to all individuals with an ASD as part of a first-tier diagnostic evaluation. Implementation and use of this high density whole-genome array provides valuable and clinically actionable information for over 10% of all pediatric patients evaluated for neurodevelopmental disorders. Significantly, recent studies from our group and others have enabled us to have a clearer appreciation of the extent and nature of structural variation in the human genome in health and disease. Additionally, the ability to identify recurrent and rare structural imbalances by microarray analysis is now allowing us to decipher potential mechanisms that result in complex chromosomal rearrangements with adverse phenotypic impact. Therefore, we believe that not only are we solving challenging diagnostic dilemmas for patients and their families, but also providing valuable long-term care and prognostic information.

More significantly, based upon an ongoing evaluation of current medical literature and critical evaluation of multiple microarray platforms available for clinical use, we adopted a microarray platform that analyzes SNPs across the genome at an extremely high resolution. In addition to assessing genomic copy number variations, analysis of SNPs enables detection of regions of heterozygosity involving single or multiple chromosomes, which may provide clues towards identifying possible genetic imprinting disorders and / or situations that increases the risk of autosomal recessive disorders due to shared ancestry. In the miscarriage analysis space, in addition to allowing identification of a whole spectrum of whole-chromosome and segmental genomic imbalances, SNPs readily enable detection of triploidy, molar pregnancies, and maternal cell contamination, thereby decreasing the number of additional ancillary testing often required for such samples.

### **Our Strategy**

Our strategic intent is to become the preeminent diagnostic services laboratory for reproductive healthcare testing using the best technologies available. In our efforts to achieve this objective, we leverage our direct sales team to market our IVF testing, prenatal diagnostic testing, postnatal testing, and miscarriage analysis testing. In addition, we have established pathology partnerships and strategic alliances with industry partners to increase our commercial distribution footprint.

Direct Sales Efforts

Our sales and marketing representatives aggressively market our PGS, miscarriage analysis and prenatal diagnostic microarray testing to four primary physician groups: OB/GYNs, MFMs, reproductive endocrinologists

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in IVF clinics and the historically underserved Pathology community. It is primarily the OB/GYN and occasionally the MFM, who perform the surgical procedure to remove fetal and placental tissue from the uterus following a miscarriage or fetal death. Pathologists are the custodians of this tissue and are often charged with determining which reference lab to utilize for send-out testing on these specimens. Embryologists in the IVF clinics conduct the biopsies of embryos in the clinic. MFMs conduct the CVS and amnio procedures, often in clinic as well. For the miscarriage analysis market, our strategic sales approach is to engage with, and sell to, the multiple decision-makers in the laboratory and the clinic, culminating with the pathologist. We believe this pathology-centric approach to miscarriage analysis testing, where we leverage our expertise in the testing of FFPE, gives us a competitive edge. Whereas our competitors primary sales call points are the medical office clinicians, and their primary test offerings focus on other product or service lines in developmental testing, we are very focused on the miscarriage analysis market and the unmet clinical need for this testing.

In December 2012, two studies by the National Institute of Health, which were published in the New England Journal of Medicine, demonstrated the diagnostic superiority of microarray analysis compared to traditional karyotyping for both stillbirths (Reddy, et al.) and prenatal diagnosis for ongoing pregnancies (Wapner, et al.). As mentioned above, in December 2013, ACOG issued a Committee Opinion not only recommending microarray analysis in lieu of karyotyping for fetal death and stillbirths (also referred to as POCs), but also as a superior test modality for prenatal diagnosis. In June 2016, our medical team and several thought leaders published the largest study of its kind regarding microarray analysis on POCs, *Genetics in Medicine*. In this study of 8,118 samples analyzed over a period of 44 moths, we found an overall success rate of 91.0% for all sample types including both fresh tissue (92.4%) and FFPE (86.4%). In addition to the detection of whole chromosome aneuploidies, we identified polyploidy, whole genome homozygosity (seen in molar pregnancies), segmental genomic imbalances, and cases affected by maternal cell contamination. Given the increased diagnostic power and significantly higher success rate for obtaining results compared to karyotyping, our data supported microarray analysis as the preferred testing modality for pregnancy losses of all gestational ages. We are leveraging our direct sales channel and our strategic partners—channels to capitalize on the prenatal diagnostic testing opportunity and the recommendations of ACOG, which we believe highlight the superiority of microarray testing compared to traditional testing, such as karyotyping and FISH.

### Strategic Alliances

Strategic alliances with established industry partners allow us to round-out our test menu to offer complete testing solutions to MFM specialists, reproductive endocrinologists, and OB/GYNs, and to capitalize on the demand for complementary test options, such as NIPT, which remains a screening modality. We have established several key partnerships in the past and we will continue to consider accretive business relationships that add value to our customers.

In addition, we have focused our reimbursement efforts on maximizing collections for all of the tests that we perform. We internalized our billing and collections process in 2012 and continue to augment our billing and reimbursement department to secure future positive coverage decisions and optimize payer relations. In 2016, we observed that several third-party insurance plans altered their coverage decisions and determined that testing products of conception for recurrent pregnancy loss by microarray is indeed clinically valuable and medically necessary. We believe this change from non-coverage to coverage for products of conception testing by microarray is a positive trend. We are also focused on increasing our managed care relationships, and have previously announced payor contracts covering our suite of diagnostics services, and expect to execute additional payor contracts in the future.

Scientific Advisory Board

In 2015 we initiated efforts to build our scientific advisory board (SAB), which as of the date of this filing currently is comprised of six members. We believe that our SAB adds significant intellectual and business expertise to CombiMatrix and to the direction of our current and future test offerings. Our SAB currently

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includes leaders in the areas of maternal fetal medicine, obstetrics/gynecology, reproductive endocrinology, clinical embryology and pediatric neurology.

## **Billing and Reimbursement**

#### Payor Categories

Revenues from our clinical laboratory tests are generated primarily from the provision of test results to the referring healthcare provider. Reimbursement, however, can come from several different sources. Depending on the billing arrangement and applicable law, parties that reimburse us for our services include direct-bill customers, third-party payors and individual patients. Where there is a coverage policy, contract or agreement in place, we bill the third-party payor, the hospital or referring laboratory as well as the patient (for deductibles and coinsurance or copayments, where applicable) in accordance with the policy or contractual terms. Where there is no coverage policy, contract or agreement in place, we pursue reimbursement on behalf of each patient on a case-by-case basis and rely on applicable billing standards to guide our claims process.

Our direct-bill payors include healthcare institutions such as hospitals, clinics, physician offices and in some circumstances, patients themselves. For the direct-bill and individual patient categories, our diagnostic services are billed and revenues are recognized at established contractual rates, once the test results have been delivered to the ordering physician.

Third-party payors include organizations such as commercial insurance companies, as well as government payors including Medicare and Medicaid. We bill our tests to these payors using individual billing codes known as Common Procedural Terminology, or CPT, codes established for array-based laboratory diagnostic testing. For the non-governmental third-party payor category, our diagnostic services are billed at our list prices for the test(s) performed, but they are recognized for accounting and financial reporting purposes as diagnostic service revenues based upon the amounts expected to be collected. The difference between the amount billed to each payor and the amount expected to be collected is recorded as a contractual allowance. For governmental payors, we recognize revenues based upon published fee schedules established by the Centers for Medicare and Medicaid Services, or CMS, or various state Medicaid fee schedules.

#### CPT Coding

CPT codes are the main data code set used by physicians, hospitals, laboratories and other health care professionals to report separately-payable clinical laboratory tests for reimbursement purposes. The CPT coding system is maintained and updated on an annual basis by the American Medical Association, or AMA. In 2012, the AMA added over one hundred new CPT codes for specific molecular tests such as ours. These new codes replaced the more general—stacking codes that were previously used to bill for these services, and they became effective January 2013. In the Final Physician Fee Schedule Rule, which was issued in November 2012, CMS stated that it had determined it would pay for the new codes as clinical laboratory tests, which are payable on the Clinical Laboratory Fee Schedule, or CLFS. Although the various Medicare Administrative Contractors, or MACs, established pricing based on a—gap filling methodology, not all of the codes were priced by CMS, and were omitted from the 2014, 2015, 2016 and 2017 CLFS. Among these were molecular codes we use in billing for our microarray testing.

The omission of certain CPT codes utilized by us from the CLFS could have an adverse impact on our revenue and cash reimbursement going forward. We continue to work with industry advisory groups to determine what information and action is needed to ensure continued reimbursement. There is a possibility that other third-party payors will establish negative or inadequate coverage policies or reimbursement rates.

### Reimbursement

For the years ended December 31, 2016 and 2015, approximately 21% and 27% of our diagnostic services revenues were derived from direct bill customers, 71% and 68% from third-party commercial insurance carriers,

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2% and 3% from government payors, including Medicare and several state Medicaid plans, and 6% and 2% from private pay customers, respectively.

With respect to the third-party payors that we bill, we are considered an out-of-network provider with the majority of the carriers, resulting in varying expected reimbursement amounts, which we believe is not unusual for a company such as ours that offers highly specialized and/or unique testing. An in-network provider has a contracted arrangement with the insurance company or benefits provider. This contract governs, among other things, service-level agreements and reimbursement rates. In certain instances, an insurance company may negotiate an in-network rate for our testing rather than pay the typical out-of-network rate. During our operating history, we have been able to receive reimbursement for most of our tests from major commercial third-party payors based on their established policies. Our efforts in obtaining reimbursement are based on individual claims, include pursuing appeals or reconsiderations of claim denials, require a substantial amount of time and effort, and may still result in bills not being paid for many months, if at all. Furthermore, if a third-party payor denies coverage after final appeal, payment may not be received. We have implemented a revenue cycle management system and have expanded our billing and collections department to address these issues. We have also executed managed care contracts to become in-network with certain third-party payors, and continue to seek additional in-network contracts. However, we cannot predict whether, or under what circumstances, payors will reimburse our microarray tests. Payment amounts can also vary across individual policies. Denial of coverage by payors, or reimbursement at inadequate levels, will have a material adverse impact on market acceptance of our tests.

### **Governmental Regulation**

Our business is subject to extensive laws and regulations as described below. It is impossible to predict what future changes will be made to federal, state and local laws and regulations and the impact that such changes may have on us.

The Patient Protection and Affordable Care Act

Comprehensive health care reform legislation passed in 2010 entitled The Patient Protection and Affordable Care Act, or ACA, instituted permanent cuts to the CLFS, which are in addition to the automatic sequestration reductions mandated by the Budget Control Act of 2011. However, due to new government leadership under President Donald Trump, executive orders designed to scale back the impact of the ACA have recently been enacted in 2017. Also, the U.S. Congress, in alliance with President Trump, is likely to propose sweeping legislation during 2017 to repeal and replace the ACA. We believe that a newly revised ACA will likely contain a number of provisions that are expected to impact our business and operations, albeit in ways we cannot currently predict. Provisions governing enrollment in federal healthcare programs, reimbursement changes, and the treatment of fraud and abuse will still impact existing government healthcare programs and will result in the development of new programs. Generally, the ACA and private payers may soon be faced with new legislation designed to contain costs or legislate different financial options for consumers who purchase health care insurance. These reforms present challenges and unpredictability to laboratories like ours.

Clinical Laboratory Improvement Amendments of 1988, or CLIA

As a clinical reference laboratory, we are required to hold certain federal, state and local licenses as well as certain certifications and permits to conduct our business. Under CLIA, we are required to hold a certificate applicable to the type of work we perform and to comply with standards covering personnel, facilities administration, quality systems and proficiency testing. We have a certificate of accreditation under CLIA to perform testing and are accredited by the College of American Pathologists, or CAP. To renew our CLIA certificate, we are subject to periodic inspection

standards applicable to the testing we perform. Should regulatory compliance requirements become substantially more complex, operational costs at our lab might increase in the future. If our laboratory is out of compliance with CLIA requirements, we may be subject to

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certain sanctions including suspension or revocation of our CLIA certificate and various civil and/or criminal penalties. We must maintain CLIA compliance and certification to be eligible to bill for services provided to Medicare beneficiaries. If we were to be found out of compliance with CLIA program requirements and subjected to sanctions, our business could be harmed. We are not able to guarantee that we will pass all future license and/or certification inspections.

### U.S. Food and Drug Administration, or FDA

Regulations by the FDA regarding genetic testing are in a state of flux and changes to these regulations could dramatically affect the molecular diagnostics industry in the near future. While the FDA has the authority to regulate laboratory developed tests, or LDTs, it has generally exercised enforcement discretion in the area of LDTs performed by CLIA-certified laboratories. However, with the advent of Direct-to-Consumer DNA testing (i.e., testing that is marketed directly to the public, does not require a physician s order, and provides risk factor information rather than diagnostic or prognostic information), genomic testing using microarray technology (particularly single nucleotide polymorphism arrays) has come under scrutiny. In July 2010, the FDA held a two-day public meeting to obtain input from key stakeholders, including physicians, laboratory directors, regulatory and accrediting body members and the general public, regarding the structuring of a regulatory framework for LDTs. During this meeting, we believe that it became clear that the FDA s primary concern had less to do with CLIA-certified laboratories (such as ours) performing clinical microarray testing (i.e., testing ordered by a physician for medically necessary reasons, including disease diagnosis, monitoring and treatment decisions) and more to do with Direct-to-Consumer laboratories performing non-clinical testing that relies on what the FDA has referred to as black box proprietary algorithms to interpret their microarray data. This meeting came on the heels of a U.S. Government Accountability Office report entitled Direct-to-Consumer Genetic Tests: Misleading Test Results are Further Complicated By Deceptive Marketing and Other Ouestionable Practices.

On October 3, 2014, the FDA published two draft guidance documents regarding proposals for the regulation of LDTs in the Federal Register. The 120-day public comment period on the draft documents began at issuance and lasted until February 2, 2015. Since this time, industry stakeholders have responded to the FDA draft guidance document, both for and against, with the only certainty being that a change in how LDTs will be monitored and by what federal agency are on the horizon. In early January of 2017, the FDA announced it would not issue a final guidance on the oversight of LDTs at the request of various stakeholders, such as the AMA and the ACOG in order to allow for further public discussion on an appropriate oversight approach and to give Congressional authorizing committees the opportunity to develop a longer-term, legislative solution. There can be no assurance that changes to the FDA s involvement in LDTs will not negatively impact our business. Generally speaking, the FDA and the legislative branch frequently entertain proposals that would increase FDA oversight of laboratories like ours and the testing that we conduct. The outcome and impact of such proposals on our business is impossible to predict. The FDA may impose a range of penalties for non-compliance with any of its rules, including recalls, injunctions and sanctions, any of which would negatively impact our business.

### Health Insurance Portability and Accountability Act, or HIPAA

Under HIPAA, the U.S. Department of Health and Human Services, or HHS, issued regulations to protect the privacy of individuals personal medical and health information through the implementation of security measures that govern how such data is stored and maintained, and to limit the disclosure of this protected health information to only those who receive specific authorization from the individual. The federal Health Information Technology for Economic and Clinical Health Act, or HITECH, enacted in February 2009, expanded the HIPAA rules significantly, in particular HIPAA enforcement. For example, HITECH authorizes state attorneys general to bring civil actions on behalf of state residents and it requires HHS to conduct extensive auditing. Perhaps most importantly, HITECH renders HIPAA

directly applicable to the business associates of covered entities, which in some cases may mean us. The omnibus regulation implementing most of the HITECH provisions was published in January 2013. In February 2014, CMS issued final rules amending HIPAA to provide individuals or their personal representatives with the right to receive copies of their test reports from

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laboratories covered by HIPAA and/or to request that such test reports be transmitted to certain third parties. This rule preempts many state laws that prohibit laboratories like ours from directly providing individuals with their test reports. Violations of HIPAA regulations include civil and criminal penalties, including up to ten years imprisonment. Consequently, our policies and procedures are designed to comply with such regulations. The requirements under these regulations may change periodically and we will continue to monitor such changes.

There are also a number of state laws governing confidentiality of health information that are applicable to our operations, and new laws governing privacy may be adopted in the future. Violation of such laws could affect our applicable state licensure and could also result in criminal and/or civil penalties.

In addition, HIPAA and many state laws would require that we provide a written notification to affected individuals, certain federal and state agencies, and possibly the media if we suffered a breach of personal medical or health information. While we believe that we comply with regulations currently, we can provide no assurance that we are or will remain in compliance with diverse privacy requirements as they develop.

We believe that we are in compliance with the current Transactions and Code Sets Rule. We have transitioned from use of ICD-9-CM to ICD-10-CM as of October 1, 2015. Experience to date with use of ICD-10-CM shows no negative effects on our receipts and net revenue. We also believe that we are in compliance with the Operating Rules for electronic funds transfers and remittance advice transactions. We will continue to assess our computer systems to ensure compliance with such requirements.

Federal and State Insurance Regulations, Self-referral Prohibitions and Anti-kickback Laws

We are subject to federal and state laws, such as the Federal False Claims Act, state false claims acts, the illegal remuneration provisions of the Social Security Act, the federal anti-kickback laws, state anti-kickback laws, and the federal Stark laws, that govern financial and other arrangements among healthcare providers, their owners, vendors and referral sources, and that are intended to prevent healthcare fraud and abuse. Among other things, these laws prohibit kickbacks, bribes and rebates, as well as other direct and indirect payments or fee splitting arrangements that are designed to induce the referral of patients to a particular provider for medical products or services payable by any federal healthcare program, and prohibit presenting a false or misleading claim for payment under a federal or state program. They also prohibit some physician self-referrals. These laws are liberally interpreted and aggressively enforced by multiple state and federal agencies and law enforcement (including individual qui tam plaintiffs) and such enforcement is increasing. For example, the ACA increased funding for federal enforcement actions and many states have established their own Medicare/Medicaid Fraud Units and require providers to conspicuously post the applicable Unit s hotline number. Possible sanctions for violation of any of these restrictions or prohibitions include loss of eligibility to participate in federal and state reimbursement programs and civil and criminal penalties. Changes in these laws at all levels of government are frequent and could increase our cost of doing business. If we fail to comply, even inadvertently, with any of these requirements, we could be required to alter our operations, refund payments to the government, lose our licensure or accreditation, enter into corporate integrity, deferred prosecution or similar agreements with state or federal government agencies, and become subject to significant civil and criminal penalties.

### State Laboratory Licensing

In addition to federal certification requirements of laboratories under CLIA, licensure is required and maintained for our clinical reference laboratory under California law. We currently maintain a license in good standing with the California Department of Health Services, or DHS, but if our clinical reference laboratory is found to be out of compliance with California standards, our license may be suspended or revoked by the California DHS, and we may be subject to fines and penalties.

We must also satisfy various applications and provisional requirements for other states in which we desire to conduct business, and we have obtained licenses for Florida, Maryland, Pennsylvania and Rhode Island. We are

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licensed by the New York State Department of Health to perform prenatal and postnatal/pediatric cytogenetic testing, microarray analysis for pediatric care, prenatal, and miscarriage analysis, and our PGS test offering has conditional approval enabling us to offer PGS testing in the state of New York. We may become aware from time to time of additional states that require out-of-state laboratories to obtain licensure in order to accept patient specimens from those states, and it is possible that other states do have such requirements or will have such requirements in the future. If we identify any other state with such requirements or if we are contacted by any other states advising us of such requirements, we intend to strictly adhere to the instructions and guidelines from the state regulators as to how we should comply with such requirements. There can be no assurance, however, that our efforts to comply will be successful.

### **Commercial Operations**

All services offered by us are performed in our CLIA certified, CAP accredited clinical laboratory in Irvine, California. Our commercial operations infrastructure includes sales, marketing, clinical support services and billing/reimbursement. We continue to build a nationally focused commercialization strategy by interacting directly with pathologists, medical geneticists, maternal fetal medicine specialists, reproductive endocrinologists, obstetrician and gynecologists, pediatric neurologists and genetic counselors. The market-specific experience of our direct sales force, coupled with regional and local territory experience, is expected to increase physician awareness and demand for our services. Our marketing and clinical support services teams work in tandem to increase awareness and appropriate utilization of our services by both physicians and patients. Our marketing initiatives include traditional marketing tactics such as physician education, professional medical society and advocacy tradeshows as well as web based initiatives. Our billing and reimbursement team works to facilitate access to our services by assisting ordering physicians and their patients with healthcare insurance billing, appeal processes, patient payment options, and securing managed care contracts with willing payers. In addition to our direct sales approach, we actively market our services to other laboratories through pathology partnerships and through strategic alliances with complementary industry partners.

### Seasonality

Our business is subject to the impact of seasonality, particularly during the mid-summer months when patients tend to be less likely to visit their healthcare providers for diagnostic testing due to vacations, and in the latter part of December and early January when many IVF clinics close down for annual maintenance. In addition, during the winter months, disruptions in transportation due to inclement weather may affect not only patients—ability to visit their healthcare providers, but it may also prompt provider concerns about potential disruption or delay in sample processing, both of which negatively impact our business. Consequently, the demand for our services, in general, could be subject to declines in the summer and during periods of severe weather.

### Patents, Trademarks and Licenses

As a part of our corporate restructuring that occurred in 2010, many of our issued patents and patent applications were licensed to a private company, CustomArray, Inc., for which we receive minimum royalties of \$100,000 per year. The intellectual property rights that remain are not currently used in our molecular diagnostics services business.

We seek to protect our corporate identity and services with trademarks and service marks. In addition, our trademark strategy includes protecting the identity and goodwill associated with our technologies and services. Currently, our registered trademarks include COMBIMATRIX®.

We attempt to obtain licenses to the patent rights of others when required to meet our business objectives. For example, we purchase chemical reagents from suppliers who are licensed under appropriate patent rights. Further, our policy is to obtain licenses from patent holders for our services whenever such licenses are required. We evaluate if and when a license is needed or required depending upon the individual circumstance.

# Competition

We believe that competition within our market is increasing. Our business competitors in the United States include regional clinical microarray laboratories, both commercial and academic, as well as large national companies such as LabCorp, Quest Diagnostics, Natera, Progenity, the Cooper Companies, and several others. Some of these competitors may possess greater financial, technical, human and other resources than we do. In addition, technological advances or entirely different approaches developed by one or more of our competitors could render our services obsolete or uneconomical. The existing approaches of competitors or new approaches or technology developed by competitors may be more effective than those developed by or currently utilized by us.

Our market is rapidly changing, and we expect to face additional competition from new market entrants, new product and service developments and consolidation of our existing competitors. As new competitors emerge, the intensity of competition may increase in the future. An example of this is the emergence of NIPT companies in the past several years. These companies offer a screening test based on the analysis of cell-free fetal DNA in the maternal blood stream as opposed to the analysis of pregnancy-related hormones and proteins, as has been the standard of care for several decades. Despite improvements to detection rates, NIPT remains a screening test, and as such, clinical guidelines recommend that all positive NIPT results be confirmed with diagnostic testing performed using an invasive technique, such as chorionic villus sampling or amniocentesis.

## **Research and Development**

Our research and development activities primarily relate to the development and validation of diagnostic tests in connection with our specialized PGS, miscarriage analysis, prenatal and pediatric developmental disorder genetic tests. For the years ended December 31, 2016 and 2015, we incurred research and development expenses of \$493,000 and \$466,000, respectively.

### **Employees**

As of December 31, 2016, we had 55 full-time-equivalent employees, one of whom is an M.D. and another of whom is a Ph.D. We believe that we maintain good relationships with our employees and are not subject to collective bargaining arrangements.

### **Environmental Matters**

Our operations involve the use, transportation, storage and disposal of hazardous substances. As a result, we are subject to environmental and health and safety laws and regulations. The cost of complying with these and any future environmental regulations could be substantial, though historically such costs have not been significant. In addition, if we fail to comply with environmental laws and regulations, or release any hazardous substances into the environment, we could be exposed to substantial liability in the form of fines, penalties, remediation costs and other damages and could even suffer a curtailment or shut down of our operations.

### **Available Information**

We are subject to the informational requirements of the Securities Exchange Act of 1934. Therefore, we file periodic reports, proxy statements and other information with the SEC. Such reports, proxy statements and other information may be obtained by visiting the Public Reference Room of the SEC at 100 F Street N.E., Washington, D.C. 20549 or by calling the SEC at 1-800-SEC-0330. In addition, the SEC maintains an Internet site (http://www.sec.gov) that contains reports, proxy and information statements and other information regarding issuers that file electronically.

Additional financial and company-related information can be found in the Investor Relations section of our website at www.combimatrix.com. Our Annual Reports on Form 10-K, our Quarterly Reports on Form 10-Q, our

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Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, are made available free of charge on our website as soon as reasonably practicable after we electronically file them with or furnish them to the SEC. Information contained on our web site is not part of this Annual Report on Form 10-K or our other filings with the SEC.

The charters of our Audit Committee, our Compensation Committee and our Nominating and Governance Committee are available on the Investor Relations section of our website under Corporate Governance. Also available on that section of our website is our Code of Business Conduct and Ethics, which we expect every employee, officer and director to read, understand and abide by. This information is also available by writing to us at CombiMatrix Corporation, 310 Goddard, Suite 150, Irvine, CA 92618, Attn: Corporate Secretary.

### Item 1A. RISK FACTORS

An investment in our securities involves a high degree of risk. Before making a decision to purchase our securities, you should carefully consider all of the risks described in this annual report. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business and results of operations. If any of these risks actually occur, our business, financial condition or results of operations could be seriously harmed. In that event, the market price for our common stock could decline and you may lose part or all of your investment.

### **Risks Related to Our Business**

We may not be able to meet our cash requirements beyond the first quarter of 2018 without obtaining additional capital from external sources and our current outstanding private placement warrants may prevent us from issuing new securities. If we are unable to raise additional capital through future financings or from external sources, we may not be able to continue as a going concern.

As of December 31, 2016, we had \$3.7 million in cash, cash equivalents and short-term investments, which we anticipate will meet our cash requirements through and beyond the fourth quarter of 2017. However, in order for us to continue as a going concern beyond that point, we will have to increase revenue and cash reimbursement, continue to control operating expenses and may be required to obtain capital from external sources. Our ability to continue as a going concern is dependent upon our ability to further implement our business plan, generate sufficient revenues and cash reimbursement and to control operating expenses, of which there can be no assurance.

In order to issue securities at a price below the exercise prices of our outstanding warrants issued in connection with our past preferred stock private placement financings, we must obtain the affirmative consent of holders of at least 67% of each series of such outstanding warrants. If we are unable to obtain the consent of these holders in connection with future financings, we may be unable to raise additional capital on acceptable terms, or at all. If external financing sources are not available in a timely manner or at all, or are inadequate to fund our operations, it could result in reduced revenues and cash flows from the sales of our diagnostic services and/or could jeopardize our ability to launch, market and sell additional services necessary to grow and sustain our operations.

### We have a history of losses and expect to incur additional losses in the future.

We have sustained substantial losses since our inception. We may never become profitable, or if we do, we may not be able to sustain profitability. We expect to incur significant research and development, marketing, general and administrative expenses. As a result, we expect to incur losses for the foreseeable future.

To date, we have relied primarily upon selling convertible debt and equity securities to generate the funds needed to finance the implementation of our business strategies. We cannot assure you that we will not encounter

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unforeseen difficulties, including the outside influences identified below that may deplete our capital resources more rapidly than anticipated. We may be required to obtain additional financing through bank borrowings, debt or equity financings or otherwise, which would require us to make additional investments or face a dilution of our equity interests. We cannot be sure that additional funding will be available on favorable terms, if at all. In order to issue securities at a price below the exercise prices of our outstanding warrants issued in connection with our past preferred stock private placement financings, we must obtain the affirmative consent of holders of at least 67% of each series of such outstanding warrants. If we are unable to obtain the consent of these holders in connection with future financings, we may be unable to raise additional capital on acceptable terms, or at all. If external financing sources are not available in a timely manner or at all, or are inadequate to fund our operations, it could result in reduced revenues and cash flows from the sales of our diagnostic services and/or could jeopardize our ability to launch, market and sell additional products and services necessary to grow and sustain our operations. If we fail to obtain additional funding when needed, we may not be able to execute our business plans or continue operations, and our business may be materially adversely affected.

We began commercialization of our molecular diagnostics services in 2006. Accordingly, we have a limited operating history of generating revenues from services. In addition, we are still developing our technologies and service offerings and are subject to the risks, expenses and difficulties frequently encountered by companies with such limited operating histories. Since we have a limited operating history, we cannot assure you that our operations will become profitable or that we will generate sufficient revenues to meet our expenditures and support our activities.

Because our business operations are subject to many uncontrollable outside influences, we may not succeed.

Our business operations are subject to numerous risks from outside influences, including the following:

Technological advances may make our array-based technology less competitive or even obsolete, and as a result, our revenue and the value of our assets could materially decrease.

Our services are dependent upon oligonucleotide and SNP array-based technologies. These technologies compete with conventional diagnostic technologies such as karyotyping, FISH and polymerase chain reaction, or PCR-based tests. Many newly developed tests rely on Next Generation Sequencing, or NGS, and there is a trend in the field toward increased usage of NGS-based testing. Our services are substantially dependent upon our ability to offer the latest in microarray technology in the cytogenomic market. We expect to face additional competition from new market entrants and consolidation of our existing competitors. Many of our competitors have existing strategic relationships with major pharmaceutical and biotechnology companies, greater commercial experience and substantially greater financial and personnel resources than we do. We expect new competitors to emerge and the intensity of competition to increase in the future. If these companies are able to offer technological advances, our services may become less valuable or even obsolete. We cannot provide any assurance that existing or new competitors will not enter the market with the same or similar technological advances before we are able to do so.

Our technologies face uncertain market value.

Our business includes many services, some of which were more recently introduced into the market. We cannot provide any assurance that the increase, if any, in market acceptance of these technologies and services will meet or exceed our expectations. Further, we are developing services, some of which have not yet been introduced into the market. A lack of or limited market acceptance of these technologies and services will have a material adverse effect upon our results of operations.

We obtain components and raw materials from a limited number of sources and, in some cases, a single source, and the loss or interruption of our supply sources may materially adversely impact our ability to provide testing services to meet our existing or future sales targets.

Substantially all of the components and raw materials used in providing our testing services, including microarray slides and reagents, are currently provided to us from a limited number of sources or in some cases from a single source. Any supply interruption in a sole-sourced component or raw material might result in up to a several-month delay and materially harm our ability to provide testing services until a new source of supply, if any, could be located and qualified. In addition, an uncorrected impurity or supplier s variation in a raw material, either unknown to us or incompatible with our process, could have a material adverse effect on our ability to provide testing services. We may be unable to find a sufficient alternative supply channel in a reasonable time period, or on commercially reasonable terms, if at all.

Any one of the foregoing outside influences may require us to seek additional financing to meet the challenges presented or to mitigate a loss in revenue, and we may not be able to obtain the needed financing in a timely manner on commercially reasonable terms or at all. Further, any one of the foregoing outside influences affecting our business could make it less likely that we will be able to gain acceptance of our array technology by researchers in the pharmaceutical, biotechnology and academic communities.

## Our revenues will be unpredictable, and this may materially adversely affect our financial condition.

The amount and timing of revenues that we may realize from our business will be unpredictable because whether our services are commercialized and generate revenues depends, in part, on the efforts and timing of our potential customers. Also, our sales cycles may be lengthy. As a result, our revenues may vary significantly from quarter to quarter, which could make our business difficult to manage and cause our quarterly results to be below market expectations. If this happens, the price of our common stock may decline significantly. Our revenues are also subject to seasonality factors and can be impacted by circumstances outside of our control, such as patient and IVF clinic vacation schedules and severe weather conditions that hamper or otherwise restrict when a patient seeking genetic diagnostic services such as ours visits the ordering physician.

# We face intense competition, and we cannot assure you that we will be successful competing in the market.

The diagnostics market is characterized by rapidly changing technology, evolving industry standards, changes in customer needs, emerging competition and new product and services introductions. One or more of our competitors may offer technology superior to ours and render our technology obsolete or uneconomical. Many of our competitors have greater financial and personnel resources and more experience in marketing, sales and research and development than we have. If we were not able to compete successfully, our business and financial condition would be materially harmed.

If our technology is not widely adopted by physicians and laboratories in the diagnostics market, our business will be materially adversely affected.

In order to be successful, our test offerings must meet the commercial requirements of hospitals and physicians and be considered the standard of care in order to be widely adopted. Market acceptance will depend on many factors, including:

the benefits and cost-effectiveness of our services relative to others available in the market;

our ability to provide testing services in sufficient quantities with acceptable quality and reliability and at an acceptable cost;

our ability to develop and market additional tests and enhance existing tests that are responsive to the changing needs of our customers; and

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the willingness and ability of customers to adopt new technologies or the reluctance of customers to change technologies upon which they have previously relied.

Uncertainty regarding U.S. healthcare reform legislation may result in significant changes and our business could be adversely impacted if we fail to adapt.

Government oversight of and attention to the healthcare industry in the United States is significant and increasing. In March 2010, U.S. federal legislation known as the Affordable Care Act, or ACA, was enacted to reform healthcare. The legislation provides for reductions in the Medicare clinical laboratory fee schedule beginning in 2011 and also includes a productivity adjustment that reduces the CPI market basket update beginning in 2011. The legislation imposes an excise tax on the seller for the sale of certain medical devices in the United States, including those purchased and used by laboratories, beginning in 2013. The legislation establishes the Independent Payment Advisory Board, which is responsible for submitting proposals aimed at reducing Medicare cost growth while preserving quality. These proposals automatically will be implemented unless Congress enacts alternative proposals that achieve the same savings targets. Further, the legislation calls for the Center for Medicare and Medicaid Innovation to examine alternative payment methodologies and conduct demonstration programs. The legislation provides for extensive health insurance reforms, including the elimination of pre-existing condition exclusions and other limitations on coverage, fixed percentages on medical loss ratios, expansion in Medicaid and other programs, employer mandates, individual mandates, creation of state and regional health insurance exchanges, and tax subsidies for individuals to help cover the cost of individual insurance coverage. The legislation also permits the establishment of accountable care organizations, a new healthcare delivery model.

As sweeping as the ACA is, the recent leadership change by the election of Donald Trump as President of the United States creates significantly more uncertainty, as one of the main tenants of Mr. Trump s campaign was the repeal and replacement of the ACA early in his first term as President. While the ultimate impact of existing health reform and related legislation on the healthcare industry is unknown, it is likely to be extensive and may result in significant change, especially if the ACA is partially or fully repealed and replaced. Our failure to adapt to these changes could have a material adverse effect on our business.

A significant component of our revenue is dependent upon successful insurance claims. Our revenue will be diminished if payors do not adequately cover or reimburse us for our services.

Physicians and patients may decide not to order our high-complexity genomic microarray tests unless third-party payors, such as managed care organizations as well as government payors such as Medicare and Medicaid, pay a substantial portion of the test price. Reimbursement by a third-party payor may depend on a number of factors, including a payor s determination that tests using our technologies are:

not experimental or investigational;
medically necessary;
appropriate for the specific patient;
cost-effective;

supported by peer-reviewed publications; and

included in clinical practice guidelines.

A substantial portion of the testing for which we bill our hospital and laboratory clients is ultimately paid by third-party payors. However, there is uncertainty concerning third-party payor reimbursement of any test, including our high-complexity genomic microarray tests. Several entities conduct technology assessments of medical tests and devices and provide the results of their assessments for informational purposes to other parties. These assessments may be used by third-party payors and health care providers as grounds to deny coverage for a test or procedure. It is possible that federal, state and third-party insurers may limit their coverage of our tests in the future.

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Increasing emphasis on managed care in the United States is likely to put pressure on the pricing of healthcare services. Uncertainty exists as to the coverage and reimbursement status of new applications or services. Governmental payors and private payors are scrutinizing new medical products and services. Such third-parties may not cover, or may limit coverage and resulting reimbursement for our services.

Additionally, third-party insurance coverage may not be available to patients for any of our existing tests or tests we may add in the future. Any pricing pressure exerted by these third-party payors on our customers may, in turn, be exerted by our customers on us. If governmental payors, including their contracted administrators, and other third-party payors do not provide adequate coverage and/or timely reimbursement for our services, our operating results, cash flows, or financial condition may materially decline.

Our cash flows and financial condition may materially decline if payors do not reimburse us for our services in a timely manner.

A significant portion of our billings to third-party payors are concentrated within a relatively small number of payors. We depend on our payors to reimburse us for our services in timely manner. If our payors do not reimburse us in a timely manner, our cash flows and financial condition may materially decline.

Third-party billing is extremely complicated and could result in us incurring significant additional costs.

Billing for molecular laboratory services is extremely complicated. The client is the party that orders the tests and the payor is the party that pays for the tests, and the two are not typically the same. Depending on the billing arrangement and/or applicable law, we need to bill various payors, such as patients, health insurance companies, Medicare, Medicaid, doctors and employer groups, all of which have different billing requirements. Health insurance companies and governmental payors also generally require complete and correct billing information within certain filing deadlines. Additionally, our billing relationships require us to undertake internal audits to evaluate compliance with applicable laws and regulations as well as internal compliance policies and procedures. Health insurance companies also impose routine external audits to evaluate payments made. Additional factors complicating billing include:

pricing differences between our fee schedules and the reimbursement rates of the payors;

disputes with payors as to which party is responsible for payment; and

disparity in coverage and information requirements among various carriers.

We incur significant additional costs as a result of our participation in the Medicare and Medicaid programs, as billing and reimbursement for laboratory testing are subject to considerable and complex federal and state regulations. The additional costs we expect to incur as a result of our participation in the Medicare and Medicaid programs include costs related to, among other factors: (1) complexity added to our billing processes; (2) training and education of our employees and customers; (3) implementing compliance procedures and oversight; (4) collections and legal costs; (5) challenging coverage and payment denials; and (6) providing patients with information regarding claims processing and services, such as advanced beneficiary notices. If these costs increase, our results of operations will be materially adversely affected.

Loss of or adverse changes to our accreditations or licenses could materially and adversely affect our business, prospects and results of operations.

The clinical laboratory testing industry is highly regulated. We are subject to the Clinical Laboratory Improvement Amendments of 1988, or CLIA, a federal law that regulates clinical laboratories that perform testing on specimens derived from humans for the purpose of providing information for the diagnosis, prevention or treatment of disease. CLIA is intended to ensure the quality and reliability of clinical laboratories in the United States by mandating specific standards in the areas of personnel qualifications, administration, and participation

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in proficiency testing, patient test management, quality control, quality assurance and inspections. We have a current certificate of accreditation under CLIA to perform testing. To renew this certificate, we are subject to survey and inspection every two years. Moreover, CLIA inspectors may make random inspections of our clinical reference laboratory. A failure to pass such inspections would result in suspension of our certificate of accreditation, which would have a material adverse effect on our business and results of operations.

We are also required to maintain a laboratory license to conduct testing in California. California laws establish standards for day-to-day operation of our clinical reference laboratory, including the training and skills required of personnel and quality control. Moreover, several states require that we hold licenses to test specimens from patients in those states. Other states may have similar requirements or may adopt similar requirements in the future. A failure to obtain and maintain these licenses would have a material adverse effect on our business and results of operations.

Complying with numerous regulations pertaining to our business is an expensive and time-consuming process, and failure to comply could result in significant penalties and suspension of one or more of our licenses.

Areas of the regulatory environment that may affect our ability to conduct business include, without limitation:

Federal and state laws applicable to billing and claims payment and/or regulatory agencies enforcing those laws and regulations;

Federal and state laboratory anti-mark-up laws;

Federal and state anti-kickback laws;

Federal and state false claims laws;

Federal and state self-referral and financial inducement laws, including the federal physician anti-self-referral law, or the Stark Law;

Coverage and reimbursement levels by Medicare, Medicaid, other governmental payors and private insurers;

Restrictions on reimbursements for our services;

Federal and state laws governing laboratory testing, including CLIA;

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Federal and state laws governing the development, use and distribution of diagnostic medical tests known as

Health Insurance Portability and Accountability Act of 1996, or HIPAA;

Federal and state regulation of privacy, security and electronic transactions;

State laws regarding prohibitions on the corporate practice of medicine;

State laws regarding prohibitions on fee-splitting;

Federal, state and local laws governing the handling and disposal of medical and hazardous waste; and

Occupational Safety and Health Administration, or OSHA, rules and regulations.

The above-noted laws and regulations are extremely complex and, in many instances, there are no significant regulatory or judicial interpretations of such laws and regulations. We also may be subject to regulation in foreign jurisdictions as we seek to expand international distribution of our tests. Any determination that we have violated these laws, or the public announcement that we are being investigated for possible violations of these laws, would materially adversely affect our business, prospects, results of operations and

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financial condition. Violations could also result in extensive civil and/or criminal penalties, loss of licensure or accreditation (which could in turn affect our ability to operate or collect reimbursement), exclusion from government healthcare programs or private payer networks, and other materially adverse effects. In addition, a significant change in any of these laws may require us to change our business model in order to maintain compliance with these laws, which could reduce our revenue or increase our costs and materially adversely affect our business, prospects, results of operations, and financial condition.

## We are subject to significant environmental, health and safety regulation.

We are subject to licensing and regulation under federal, state and local laws and regulations relating to the protection of the environment and human health and safety, including laws and regulations relating to the handling, transportation and disposal of medical specimens, infectious and hazardous waste and radioactive materials, as well as to the safety and health of laboratory employees. In addition, OSHA has established extensive requirements relating to workplace safety for health care employers, including clinical laboratories, whose workers may be exposed to blood-borne pathogens such as HIV and the hepatitis B virus. These regulations, among other things, require work practice controls, protective clothing and equipment, training, medical follow-up, vaccinations, and other measures designed to minimize exposure to, and transmission of, blood-borne pathogens. In addition, the federally enacted Needlestick Safety and Prevention Act requires, among other things, that we include in our safety programs the evaluation and use of engineering controls such as safety needles if found to be effective at reducing the risk of needlestick injuries in the workplace. If we are found in violation of any of these regulations, we could be subject to substantial penalties or discipline and our business, prospects and results of operations could be materially and adversely affected.

Our business is subject to stringent laws and regulations governing the privacy, security and transmission of medical information, and our failure to comply could subject us to criminal penalties and civil sanctions.

Governmental laws and regulations protect the privacy, security and transmission of medical information. Such laws and regulations restrict our ability to use or disclose patient identifiable laboratory data, without patient authorization, for purposes other than payment, treatment or healthcare operations (as defined by HIPAA), except for disclosures for various public policy purposes and other permitted purposes outlined in the privacy regulations. The privacy and security regulations provide for significant fines and other penalties for wrongful use or disclosure of patient identifiable laboratory data, including potential civil and criminal fines and penalties. Such regulations were expanded under the HITECH Act, including rules impacting the release of protected health information, patients right to access such information, the content and manner of providing notice of a breach, and information system security requirements. We also could incur damages under state laws to private parties for the wrongful use or disclosure of confidential health information or other private personal information. In addition, the Secretary of the Department of Health and Human Services has published HIPAA regulations to protect the privacy of health information when it is exchanged electronically during certain financial and administrative transactions. These HIPAA transaction standards are complex and different payers interpret them differently. Complying with applicable transmission standards is costly and failure to comply could disrupt our receipts or subject us to penalties. Generally, any security breach of our information systems, including the theft of our patients financial information due to our failure to comply with applicable security standards, would adversely impact our business and our reputation.

# Our services development efforts may be hindered if we are unable to gain access to patients tissue and blood samples.

The development of our diagnostic services requires access to tissue and blood samples from patients who may or may not have the diseases we are addressing. Our clinical development relies on our ability to secure access to these

samples, as well as information pertaining to their associated clinical outcomes. Access to samples can be difficult since it may involve multiple levels of approval, complex usage rights and privacy

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rights, among other issues. Lack of or limited access to samples would harm our future services development efforts, which would have a material adverse effect on our business and results of operations.

If our current laboratory facility becomes inoperable or loses certification, we will be unable to perform our tests and our business will be materially adversely affected.

Our diagnostic tests are operated out of our CLIA-certified laboratory in Irvine, California. Currently, we do not have a second certified laboratory. Should our only CLIA-certified laboratory be unable to perform tests, for any reason, we may be unable to perform needed diagnostic tests in connection with our development of technologies services and our business will be materially adversely affected.

Our future success depends on the continued service from our scientific, technical and key management personnel and our ability to identify, hire and retain additional scientific, technical and key management personnel in the future.

There is intense competition for qualified personnel in our industry, particularly for laboratory technicians, scientific and medical experts and senior level management. Loss of the services of, or failure to recruit, these key personnel could be significantly detrimental to us and could materially adversely affect our business and operating results. We may not be able to continue to attract and retain scientific and medical experts or other qualified personnel necessary for the development of our business or to replace key personnel who may leave us in the future. If our business grows, it will place increased demands on our resources and likely will require the addition of new management personnel. An inability to recruit and retain qualified management and employees on commercially reasonable terms would adversely and materially affect our business.

As our operations expand, our costs to comply with environmental laws and regulations will increase, and failure to comply with these laws and regulations could materially harm our financial results.

Our operations involve the use, transportation, storage and disposal of hazardous substances and, as a result, we are subject to environmental and health and safety laws and regulations. As we expand our operations, our use of hazardous substances will increase and lead to additional and more stringent requirements. The cost to comply with these and any future environmental and health and safety regulations could be substantial. In addition, our failure to comply with laws and regulations, and any releases of hazardous substances into the environment or at our disposal sites, could expose us to substantial liability in the form of fines, penalties, remediation costs and other damages, or could lead to a curtailment or shut down of our operations. These types of events, if they occur, would materially adversely affect our financial results.

## We could face substantial liabilities if we are sued for product liability.

Product liability claims could be filed by someone alleging that our tests failed to perform as claimed. We may also be subject to liability for errors in the performance of our tests. Such product liability and related claims could be substantial. Defense of such claims could be time consuming and expensive and could result in damages that are not covered by our insurance.

Failure to effectively manage our growth could place strains on our managerial, operational and financial resources and could materially adversely affect our business and operating results.

Our growth has placed, and is expected to continue to place, a strain on our managerial, operational and financial resources. In addition, any further growth by us or an increase in the number of our strategic relationships may

constrain our ability to achieve the rapid execution necessary to successfully implement our business plan.

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As a public company, we are subject to complex legal and accounting requirements that will require us to incur substantial expense and will expose us to risk of non-compliance.

As a public company, we are subject to numerous legal and accounting requirements that do not apply to private companies. The cost of compliance with many of these requirements is substantial, not only in absolute terms but, more importantly, in relation to the overall scope of the operations of a small company. Failure to comply with these requirements can have numerous material adverse consequences including, but not limited to, our inability to file required periodic reports on a timely basis, which would result in the loss of our eligibility to use Form S-3 for raising capital, loss of market confidence, delisting of our securities, governmental or private actions against us and/or liquidated damages payable to the holders of our Series A Warrants, Series C Warrants, our April 2015 private placement warrants, and our Series F Preferred Stock and Series F Warrants. We cannot assure you that we will be able to comply with all of these requirements or that the cost of such compliance will not prove to be a substantial competitive disadvantage compared to our privately held and larger public competitors.

# Ethical, legal and social concerns surrounding the use of genetic information could reduce demand for our test offerings.

Genetic testing has raised ethical issues regarding privacy and the appropriate uses of the resulting information. For these reasons, governmental authorities may call for limits on or regulation of the use of genetic testing or prohibit testing for genetic predisposition to certain conditions, particularly for those that have no known cure. Similarly, such concerns may lead individuals to refuse to use genetics tests even if permissible. Any of these scenarios could reduce the potential markets for our molecular diagnostic services, which reduction could have a material adverse effect on our business.

### **Risks Related To Investment In Our Securities**

Small company stock prices are especially volatile, and this volatility may depress the price of our stock.

The stock market has experienced significant price and volume fluctuations, and the market prices of small companies have been highly volatile. We believe that various factors may cause the market price of our stock to fluctuate, perhaps substantially, including, among others, announcements of:

our or our competitors technological innovations;

supply, manufacturing, or distribution disruptions or other similar problems;

proposed laws regulating participants in the laboratory services industry;

developments in relationships with collaborative partners or customers;

our failure to meet or exceed securities analysts expectations of our financial results; or

a change in financial estimates or securities analysts recommendations.

In the past, companies that have experienced volatility in the market price of their stock have been the objects of securities class action litigation. If we become the object of securities class action litigation, it could result in substantial costs and a diversion of management s attention and resources, all of which could materially adversely affect the business and financial results of our business.

Future sales or the potential for future sales of our securities in the public markets may cause the trading price of our common stock to decline and could impair our ability to raise capital through subsequent equity offerings.

Sales of a substantial number of shares of our common stock or other securities in the public markets, or the perception that these sales may occur, could cause the market price of our common stock or other securities to

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decline and could materially impair our ability to raise capital through the sale of additional securities. The shares of common stock issuable upon conversion of our Series F preferred stock and upon exercise of our outstanding warrants are freely tradable, without restriction, in the public market. We have obligations to the investors in our 2012 private placement offering of Series A convertible preferred stock and warrants to purchase common stock and in our 2013 private placement offering of Series C convertible preferred stock and warrants to maintain the public registration of common stock underlying their issued and outstanding warrants. If we raise additional capital in the future through the use of our existing shelf registration statement or if we register existing, or agree to register future, privately placed shares for resale on a registration statement, such additional shares would be freely tradable, and, if significant in amount, such sales could further adversely affect the market price of our common stock. The sale of a large number of shares of our common stock also might make it more difficult for us to sell equity or equity-related securities in the future at a time and at the prices that we deem appropriate.

# Our stock price could decline because of the potentially dilutive effect of future financings, the Series F preferred stock anti-dilution provision or exercises of warrants and common stock options.

As of December 31, 2016, we had approximately 2.7 million shares of common stock issued and outstanding. Assuming exercise in full of all options, warrants and convertible securities outstanding as of December 31, 2016 (not taking into account any price-based or anti-dilution adjustments related to the Series F preferred stock), approximately 5.8 million shares of our common stock would be outstanding. Any additional equity or convertible debt financings in the future could result in further dilution to our stockholders. Existing stockholders also will suffer significant dilution in ownership interests and voting rights and our stock price could decline as a result of potential future application of an anti-dilution feature of our Series F preferred stock.

# Our capital structure could reduce the amount of consideration paid to common stockholders in the event of a change in control.

Although we entered into the Warrants Repurchase Agreement to repurchase, upon the occurrence of a Fundamental Transaction (as defined in such agreement), the Warrants that were issued in connection with our Series A, Series B, Series C and Series E financings, such Warrants Repurchase Agreement does not cover the warrants that were issued in connection with our Series F Warrants, or the Series F Preferred Stock. Depending on the circumstances, upon a change in control constituting a Fundamental Transaction, the holders of Series F Preferred Stock may be entitled to a 30% premium and the holders of Series F Warrants may have the right to require us to purchase the Series F Warrants for an amount in cash that is determined in accordance with a formula set forth in the Series F Warrants. Such provisions could reduce the amount of consideration paid to common stockholders in the event of a change in control by reducing the amount of proceeds available for common stockholders.

# We may fail to meet market expectations because of fluctuations in our quarterly operating results, all of which could cause our stock price to decline.

Our revenues and operating results have fluctuated in the past and may continue to fluctuate significantly from quarter to quarter in the future. It is possible that, in future periods, our revenues could fall below the expectations of securities analysts or investors, all of which could cause the market price of our stock to decline. The following are among the factors that could cause our operating results to fluctuate significantly from period to period:

our unpredictable revenue sources;

the nature, pricing and timing of our and our competitors products and/or services;

changes in our and our competitors research and development budgets;

expenses related to, and our ability to comply with, governmental regulations of our services and processes; and

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expenses related to, and the results of, patent filings and other proceedings relating to intellectual property rights.

We anticipate significant fixed expenses due in part to our need to continue to invest in services development. We may be unable to adjust our expenditures if revenues in a particular period fail to meet our expectations, all of which would materially adversely affect our operating results for that period. As a result of these fluctuations, we believe that period-to-period comparisons of our financial results will not necessarily be meaningful, and you should not rely on these comparisons as an indication of our future performance.

# Our common stock may be delisted from The NASDAQ Capital Market if we cannot maintain compliance with NASDAQ s continued listing requirements.

While we are currently in compliance with NASDAQ s stockholders equity requirement and minimum bid price requirement, there are no assurances that we will be able to sustain long-term compliance with NASDAQ s stockholders equity requirement or minimum bid price requirement. If we fail to maintain compliance with the applicable requirements, our stock may be delisted. Delisting from The NASDAQ Capital Market could make trading our common stock more difficult for investors, potentially leading to declines in our share price and liquidity. Without a NASDAQ Capital Market listing, stockholders may have a difficult time getting a quote for the sale or purchase of our stock, the sale or purchase of our stock would likely be made more difficult and the trading volume and liquidity of our stock could decline. Delisting from The NASDAO Capital Market could also result in negative publicity and could also make it more difficult for us to raise additional capital. The absence of such a listing may adversely affect the acceptance of our common stock as currency or the value accorded by other parties. Further, if we are delisted, we would also incur additional costs under state blue sky laws in connection with any sales of our securities. These requirements could severely limit the market liquidity of our common stock and the ability of our stockholders to sell our common stock in the secondary market. If our common stock is delisted by NASDAO, our common stock may be eligible to trade on an over-the-counter quotation system, such as the OTCQB market, where an investor may find it more difficult to sell our stock or obtain accurate quotations as to the market value of our common stock. We cannot assure you that our common stock, if delisted from The NASDAQ Capital Market, will be listed on another national securities exchange or quoted on an over-the counter quotation system.

If we are delisted from The NASDAQ Capital Market, your ability to sell your shares of our common stock would also be limited by the penny stock restrictions, which could further limit the marketability of your shares.

If our common stock is delisted, it would come within the definition of penny stock as defined in the Securities Exchange Act of 1934, or the Exchange Act, and would be covered by Rule 15g-9 of the Exchange Act. That Rule imposes additional sales practice requirements on broker-dealers who sell securities to persons other than established customers and accredited investors. For transactions covered by Rule 15g-9, the broker-dealer must make a special suitability determination for the purchaser and receive the purchaser s written agreement to the transaction prior to the sale. Consequently, Rule 15g-9, if it were to become applicable, would affect the ability or willingness of broker-dealers to sell our securities, and accordingly would affect the ability of stockholders to sell their securities in the public market. These additional procedures could also limit our ability to raise additional capital in the future.

# Historically we have not paid dividends on our common stock, and we do not anticipate paying any cash dividends in the foreseeable future.

We have never paid cash dividends on our common stock. We intend to retain our future earnings, if any, to fund operational and capital expenditure needs of our business, and we do not anticipate paying any cash dividends in the foreseeable future. As a result, capital appreciation, if any, of our common stock will be the sole source of gain for our

common stockholders in the foreseeable future.

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# Item 1B. UNRESOLVED STAFF COMMENTS

None.

# Item 2. PROPERTIES

We currently lease office and laboratory space of approximately 12,200 square feet in Irvine, California under a lease agreement that expires in January 2020.

## Item 3. LEGAL PROCEEDINGS

From time to time, we are involved in other litigation arising in the normal course of business. Management believes that resolution of these other matters will not result in any payment that, in the aggregate, would be material to our financial position or results of operations.

## Item 4. MINE SAFETY DISCLOSURES

Not applicable.

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## **PART II**

# Item 5. MARKET FOR REGISTRANT S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

# **Recent Market Prices**

The following table sets forth, for the periods indicated, the high and low quarterly sales prices of our common stock as reported by The NASDAQ Capital Market under the symbol of CBMX. These prices represent prices among dealers, do not include retail markups, markdowns or commissions, and may not represent actual transactions. The amounts reflected in the following table are also adjusted to reflect the impact of the reverse stock split, which became effective on January 29, 2016.

		2016				2015			
	Fourth	Third	Second	First	Fourth	Third	Second	First	
	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	Quarter	
High	\$ 4.35	\$ 5.19	\$ 4.40	\$ 11.55	\$ 19.05	\$ 26.40	\$ 30.00	\$ 32.40	
Low	\$ 2.15	\$ 2.63	\$ 2.62	\$ 3.53	\$ 9.75	\$ 15.45	\$ 21.00	\$ 19.20	

As of February 28, 2017, there were eight holders of record of our common stock, which was Cede & Co., a nominee for the Depository Trust Company, or DTC, as reported to us by our stock transfer agent. All of the shares of common stock held by brokerage firms, banks and other financial institutions as nominees for beneficial owners are deposited into participant accounts at DTC and therefore are considered to be held of record by Cede & Co. as one stockholder.

No dividends have been paid on our common stock. We currently intend to retain all future earnings, if any, for use in our business and do not anticipate paying any cash dividends on our common stock in the foreseeable future.

# Securities Authorized for Issuance Under Equity Compensation Plans

The following table provides information with respect to our common shares issuable under our equity compensation plans as of December 31, 2016:

Plan Category	(a) Number of securities to be issued upon exercise of outstanding options(2)	(b) Weighted average exercise price of outstanding options(3)	(c) Number of securities remaining available for future issuance under equity compensation
			pla

			(excluding securities reflected in column (a))(4)
Equity compensation plans approved by			
security holders:			
2006 CombiMatrix Stock Incentive			
Plan(1)	180,934	\$ 92.87	2,152
Equity compensation plans not approved			
by security holders:			
None			
TOTAL	180,934	\$ 92.87	2,152

(1) Consists of our 2006 CombiMatrix Stock Incentive Plan, as amended, which allows for the granting of stock options and other awards to eligible individuals, which generally includes directors, officers, employees and

- consultants. Please refer to Note 12 to our consolidated financial statements included elsewhere in this report for additional information.
- (2) Includes shares of common stock subject to restricted stock units, or RSUs, that entitle each holder to one share of common stock for each such unit that vests over the holder s period of continued service.
- (3) Calculated without taking into account the 116,301 shares of common stock subject to outstanding RSUs that become issuable as those units vest, without any cash consideration or other payment required for such shares.
- (4) Consists of shares available for future issuance under our 2006 CombiMatrix Stock Incentive Plan as of December 31, 2016.

## **Recent Sales of Unregistered Securities**

None.

Purchases of Equity Securities by the Issuer or Affiliated Purchasers

None.

## Item 6. SELECTED FINANCIAL DATA

Not required for smaller reporting companies.

# Item 7. MANAGEMENT S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion should be read in conjunction with our consolidated financial statements included elsewhere in this report. This discussion contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in these forward-looking statements as a result of various factors including those set forth under the heading Risk Factors elsewhere in this report.

## General

We are a family health-focused clinical molecular diagnostic laboratory specializing in pre-implantation genetic screening, prenatal diagnosis, miscarriage analysis, and pediatric developmental disorders. We strive to provide best-in-class clinical laboratory support to healthcare professionals, allowing them to maximize the clinical utility of their patients—test results and to optimize patient care. Our testing focuses on advanced technologies, including single nucleotide polymorphism chromosomal microarray analysis, next generation sequencing, fluorescent in situ hybridization and high resolution karyotyping. Our approach to testing is to offer sophisticated technology along with high quality clinical support to our ordering physicians and their patients. Our laboratory facilities and corporate headquarters are located in Irvine, California.

We also own a one-third minority interest in Leuchemix, Inc., a private drug development company focused on developing a series of compounds to address a number of oncology-related diseases.

## Liquidity

As of December 31, 2016, the combination of cash, cash equivalents and short term investments totaled \$3.7 million. We believe our year-end cash balances will be sufficient to meet our expected cash requirements for current

operations through and beyond the fourth quarter of 2017. In order for us to continue as a going concern beyond this point and ultimately to achieve profitability, we may be required to obtain capital from external sources, increase revenues and reduce operating costs. However, there can be no assurances that our

operations will become profitable or that external sources of financing, including the issuance of debt and/or equity securities, will be available at times and at terms acceptable to us, or at all. The issuance of additional equity or convertible debt securities will also cause dilution to our shareholders. If external financing sources are not available or are inadequate to fund our operations, we will be required to reduce operating costs, including research projects and personnel, which could jeopardize our future strategic initiatives and business plans. See the Liquidity and Capital Resources section below as well as Note 1 to our consolidated financial statements included elsewhere in this report for additional discussion of these matters.

### **Overview of Recent Business Activities**

During 2016, our business activities were driven primarily by continued commercialization efforts for our suite of molecular diagnostic tests, expansion of our test menu and by the infusion of additional capital. For the year ended December 31, 2016, our operating activities included the recognition of \$12.9 million of total revenues, which increased by \$2.8 million from 2015, due primarily to increased volumes and improved pricing and reimbursement of our microarray diagnostic tests performed, particularly in the reproductive health testing market (defined as testing volumes from prenatal, miscarriage analysis and pre-implantation genetic screening, or PGS diagnostic tests). Revenues from our reproductive health testing services increased by 37% in 2016 compared to from 2015, and total diagnostic testing increased by 28% in 2016 compared to 2015. Our net loss from operations in 2016 decreased by \$2.4 million over 2015 primarily due to increased revenues, improved gross margins and flat operating expenses.

In February, 2016, we entered into a repurchase agreement, or the Repurchase Agreement, with the investors of our Series E preferred stock and warrant financing, which closed in February 2015. Pursuant to the terms of the Repurchase Agreement, we agreed to pay each Series E investor \$300 per share of Series E preferred stock, or approximately \$656,000, in consideration for the right to repurchase the Series E investor s Series E preferred stock upon closing of a future equity financing. In March 2016, we closed an underwritten public offering for the issuance of Series F convertible preferred stock and warrants to purchase common stock (the Series F Financing), resulting in net proceeds to us of approximately \$6.9 million. Substantially concurrently with the closing of the Series F Financing, we paid \$2.2 million to the Series E investors to repurchase all of the outstanding Series E convertible preferred stock in accordance with the Repurchase Agreement.

## **Critical Accounting Policies**

Our consolidated financial statements are prepared in conformity with accounting principles generally accepted in the United States of America. In preparing these financial statements, we make assumptions, judgments and estimates that can have a significant impact on amounts reported in our consolidated financial statements. We base our assumptions, judgments and estimates on historical experience and various other factors that we believe to be reasonable under the circumstances. Actual results could differ materially from these estimates under different assumptions or conditions. On a regular basis we evaluate our assumptions, judgments and estimates and make changes accordingly.

We believe that, of the significant accounting policies discussed in Note 2 to our consolidated financial statements, the following accounting policies require our most difficult, subjective or complex judgments:

revenue recognition and estimates for contractual allowances;

accounting for stock-based compensation;

accounting for derivative financial instruments;

fair value measurements; and

accounting for income taxes.

We discuss below the critical accounting assumptions, judgments and estimates associated with these policies. Historically, our assumptions, judgments and estimates relative to our critical accounting policies have

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not differed materially from actual results. For further information on our critical accounting policies, refer to Note 2 to our consolidated financial statements included elsewhere in this report.

### Revenue Recognition

As described below, significant management judgments must be made and used in connection with the revenue recognized in any accounting period. Material differences may result in the amount and timing of revenue recognized or deferred for any period if management made different judgments.

We recognize revenue when (i) persuasive evidence of an arrangement exists, (ii) delivery has occurred or services have been performed, (iii) amounts are fixed or determinable and (iv) collectability of amounts is reasonably assured. Service revenues from providing diagnostic tests are recognized when the testing process is complete and test results are reported to the ordering physician or clinic. These diagnostic services are billed to various payors, including third-party commercial insurance companies, healthcare institutions, government payors including various state Medicaid programs, and individuals. We report revenues from contracted payors based on a contractual rate, or in the case of state Medicaid contracts, published fee schedules for our tests. We report revenues from non-contracted payors based on the amounts expected to be collected. The differences between the amounts billed and the amounts expected to be collected from non-contracted payors are recorded as contractual allowances to arrive at net recognized revenues. The expected revenues from non-contracted payors are based on the historical collection experience of each payor or payor group, as appropriate, and also take into account recent collection trends. In each reporting period, we review our historical collection experience for non-contracted payors and adjust our expected revenues for current and subsequent periods accordingly. We also recognize additional revenue from actual cash payments that exceed amounts initially recognized, in the period the payments are received. Because a substantial portion of our revenues is from non-contracted third-party payors, it is likely that we will be required to make adjustments to accounting estimates with respect to contractual allowances in the future, which may positively or adversely affect our results of operations. In all cases described above, we report revenues net of any applicable statutory taxes collected from customers, as applicable.

### Accounting for Stock-Based Compensation

The compensation cost for all employee stock-based awards is measured at the grant date, based on the fair value of the award, and is recognized as an expense, on a straight-line basis, over the employee s requisite service period (generally the vesting period of the equity award) which is generally four years. The fair value of each stock option award is estimated on the date of grant using a Black-Scholes option valuation model. The fair value of each restricted stock unit (RSU) award is based on the number of shares granted and the closing price of our common stock as reported on the NASDAQ Capital Market on the date of grant. Stock-based compensation expense is recognized only for those awards that are expected to vest using an estimated forfeiture rate. We estimate pre-vesting option forfeitures at the time of grant and reflect the impact of estimated pre-vesting option forfeitures as a component of the expense recognized.

## Accounting for Derivative Financial Instruments

We evaluate financial instruments for freestanding or embedded derivatives. Derivative instruments that do not qualify for permanent equity classification are recorded as liabilities at fair value, with changes in value recognized as other income (expense) in the consolidated statements of operations in the period of change. Derivative warrant liabilities are categorized as either short-term or long-term based upon management s estimates as to when the derivative instrument may be realized. Management judgment is required in identifying derivative instruments and whether or not such instruments should be classified as liabilities or as a component of permanent equity based upon

interpretations of existing accounting literature. Also, management judgment is required in determining the assumptions and valuation methods to be used for valuing the derivatives. If actual results differ from these estimates, the future impact on our consolidated financial position and results of operations could be significant.

Fair Value Measurements

We measure fair value as an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that is determined based on assumptions that market participants would use in pricing an asset or liability. We utilize a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value as follows:

Level 1: Observable market inputs such as quoted prices in active markets;

Level 2: Observable market inputs, other than the quoted prices in active markets, that are observable either directly or indirectly; and

Level 3: Unobservable inputs where there is little or no market data, which require the reporting entity to develop its own assumptions

Accounting for Income Taxes

We recognize income taxes on an accrual basis based on tax positions taken or expected to be taken in our tax returns. A tax position is defined as a position in a previously filed tax return or a position expected to be taken in a future tax filing that is reflected in measuring current or deferred income tax assets and liabilities. Tax positions are recognized only when it is more likely than not (i.e., likelihood of greater than 50%), based on technical merits, that the position would be sustained upon examination by taxing authorities. Tax positions that meet the more likely than not threshold are measured using a probability-weighted approach as the largest amount of tax benefit that has a greater than 50% likelihood of being realized upon settlement. Income taxes are accounted for using an asset and liability approach that requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been recognized in our consolidated financial statements or tax returns. A valuation allowance is established to reduce deferred tax assets if all, or some portion, of such assets will more than likely not be realized. Should they occur, our policy is to classify interest and penalties related to tax positions as income tax expense. Since our inception, no such interest or penalties have been incurred, however.

### **Comparison of the Results of Operations**

Revenues and Cost of Revenues (dollars in thousands):

	For the Years Ended					
	Decemb	oer 31,	Chang	Change		
	2016	2015	\$	<b>%</b>		
Diagnostic services revenues	\$ 12,696	\$ 9,941	\$ 2,755	28%		
Royalty revenues	173	147	26	18%		
Cost of services	(5,787)	(5,444)	(343)	(6%)		

*Diagnostic Services Revenues*. Diagnostic services revenues are generated from providing DNA-based genomic testing services primarily in the areas of PGS, miscarriage analysis, prenatal diagnostics (collectively referred to as reproductive health testing) and postnatal development disorders in children. The key drivers and metrics relating to the change in diagnostic services revenues were as follows:

	For the Yea Decemb	Change		
	2016	2015	#	<b>%</b>
Total billable tests	11,033	10,002	1,031	10%
Total reproductive health tests(1)	5,824	5,126	698	14%
Reproductive health percentage of total tests	52.8%	51.2%		
Revenue per test total billable tests	\$ 1,151	\$ 994	\$ 157	16%
Revenue per test total reproductive health tests(1)	\$ 1,587	\$ 1,316	\$ 271	21%

(1) includes PGS, prenatal and miscarriage analysis microarray tests

For the year ended December 31, 2016, total billable tests and total diagnostic services revenues increased by 10% and 28%, respectively, compared to the year ended December 31, 2015. Driving the increase in billable tests and diagnostic services revenues was the increase in reproductive health test volumes, which increased by 14% for the year ended December 31, 2016 compared to the year ended December 31, 2015. We believe this reflects the commercialization strategies and focus of our sales force, which have emphasized reproductive health microarray diagnostics testing over traditional genomics testing. In addition, improved reimbursement from third-party payors primarily for our miscarriage analysis microarray test drove higher revenues per test in our reproductive health segment, thereby resulting in a higher percentage increase in total diagnostic services revenues compared to the increase in billable testing volumes.

Diagnostic services revenues are recognized based on: i) contractual rates billed to our customers and third party payors; and ii) amounts that we expect to collect from non-contracted third-party payors, which include adjustments for changes in estimates of contractual allowances as well as from receiving cash payments in excess of amounts previously recognized. Because approximately 71% of our diagnostic revenues are billed to third-party payors, most of which are non-contracted, it is likely that we will be required to make adjustments to these accounting estimates in the future, which may positively or adversely affect our revenues and results of operations.

Royalties. In 2010, we entered into an exclusive licensing agreement with CustomArray, Inc., or CA, a private company located in Washington State, for certain of our patents and intellectual property developed as part of our prior microarray manufacturing business. This agreement requires CA to pay us royalties as a percentage of their gross revenues, not less than \$25,000 per quarter. CA s actual sales increased in 2016 compared to 2015, thereby driving the increase in royalty revenues year-over-year. It is uncertain whether in future periods, CA s revenues will increase, continue at current levels or return to the minimum contractual amounts.

Cost of Services. Cost of services relating to our diagnostic tests performed include direct materials such as microarray slides, reagents and related laboratory materials, direct laboratory labor (wages and benefits), allocation of administrative overhead and stock-compensation expenses. Increases in cost of services were due primarily to the increased diagnostic testing volumes previously discussed. Non-cash stock compensation expenses were not significant for the years presented. See Note 2 to our consolidated financial statements included elsewhere in this report for a detailed description of the amounts of non-cash stock compensation expense recognized for the periods presented.

Operating Expenses (dollars in thousands):

	For the Y	Years Ended			
	Dece	December 31,		Change	
	2016	2015	\$	%	
Research and development	\$ 493	\$ 466	\$ 27	6%	
Sales and marketing	4,569	4,979	(410)	(8%)	
General and administrative	6,013	5,540	473	9%	
Impairment of cost-basis investment		97	(97)	(100%)	

Research and Development. These expenses include labor (wages, benefits and non-cash stock compensation expenses) and laboratory supply costs associated with investigating and validating new tests and technology platforms, costs to maintain and improve our existing suite of diagnostic tests offered and process improvement projects. Prior to launching a new test or technology, or modifying an existing test, appropriate clinical trials and extensive laboratory validations, consistent with the various regulations that govern our industry, must be performed.

These costs are classified as research and development for all periods presented. For the year ended December 31, 2016, research and development expenses increased from the comparable 2015 period due primarily to increased efforts during 2016 in launching a next generation sequencing platform for our PGS testing services.

Sales and Marketing. These expenses include salaries and wages associated with our sales force and marketing resources, sales commissions and other expenses associated with promotional and advertising efforts as well as non-cash stock compensation expenses. For the year ended December 31, 2016, sales and marketing expenses decreased from 2015 due primarily to reduced headcount in sales representatives and reduced travel and entertainment costs from fewer sales headcount compared to 2015. Non-cash stock compensation expenses were not significant for the years presented. See Note 2 to our consolidated financial statements included elsewhere in this report for a detailed description of the amounts of non-cash stock compensation expense recognized for the periods presented.

General and Administrative. These expenses include compensation and benefit costs of our administrative staff, client billing and collections, information technology, executive management, human resources and accounting personnel, as well as facilities-related costs, insurance, legal, audit and other professional services. General and administrative expenses increased from 2015 due primarily to increased salaries and bad debt expense, investor relations and consulting expenses, partially offset by decreased legal fees as a result of litigation which concluded in early 2015. Also included in general and administrative expenses are non-cash stock-based compensation expenses, which were \$616,000 and \$594,000 for the years ended December 31, 2016 and 2015, respectively. Changes to stock-based compensation expenses are driven by timing of when stock-based awards are granted compared to when older awards become fully vested or expire due to forfeitures, as well as by the valuations attributed to individual awards at the time they are granted. See Note 2 to our consolidated interim financial statements included elsewhere in this report for a detailed description of the amounts of non-cash stock compensation expense recognized for the periods presented.

*Impairment of cost-basis investment.* During the third quarter of 2015, management determined that the carrying value of a cost-basis investment in the stock of a privately held company was impaired, resulting in a one-time, non-cash impairment charge of \$97,000 for the year ended December 31, 2015. There were no such charges in 2016.

#### **Inflation**

Inflation has not had a significant impact in the current or prior periods.

#### **Liquidity and Capital Resources**

At December 31, 2016, cash, cash equivalents and short-term investments totaled \$3.7 million, compared to \$3.9 million at December 31, 2015. Cash is held primarily in general checking accounts as well as in money market mutual funds backed by U.S. government securities. Short-term investments are comprised primarily of certificates of deposits issued by U.S. financial institutions and commercial paper. Working capital was \$6.1 million and \$5.4 million at December 31, 2016 and 2015, respectively. The primary reason for the increase in working capital was due to higher current asset balances including accounts receivable and laboratory supplies at December 31, 2016 compared to 2015.

The net change in cash and cash equivalents for the periods presented was comprised of the following (in thousands):

	For the Years Ended				
	Decem	December 31,			
	2016	2015	Change		
Net cash (used in) provided by:					
Operating activities	\$ (3,900)	\$ (5,730)	\$ 1,830		
Investing activities	2,093	908	1,185		

Financing activities	3,881	4,465	(584)
Increase (decrease) in cash and cash equivalents	\$ 2,074	\$ (357)	\$ 2,431

*Operating Activities*. Higher cash inflows from improved cash collections partially offset by slightly higher operating expenses during the year ended December 31, 2016 resulted in lower cash used in operating activities compared to 2015.

*Investing Activities*. The increase in net cash flows from investing activities was due to significant sales of available-for-sale short-term investments made during 2016 compared to 2015.

Financing Activities. The decrease in net cash flows from financing activities was due primarily to the \$6.9 million of net proceeds received from the March 2016 Series F Financing partially offset by the \$(2.8 million) repayment of and dividends paid to the Series E investors commensurate with the 2016 Series F Financing, compared to the \$4.7 million of net proceeds from the February 2015 Series E Financing.

Future Liquidity. We have a history of incurring net losses and net operating cash flow deficits. We are also deploying new technologies and continue to develop commercial technologies and services. We believe that our cash, cash equivalents and short-term investments as of December 31, 2016, which totaled \$3.7 million, will be sufficient to meet our expected cash requirements for current operations through and beyond the fourth quarter of 2017. In order for us to continue as a going concern beyond this point and to ultimately achieve profitability, we may be required to obtain capital from external sources, increase revenues and reduce operating costs. However, there can be no assurance that our operations will become profitable or that external sources of financing, including the issuance of debt and/or equity securities, will be available at times and at terms acceptable to us, or at all. The issuance of additional equity or convertible debt securities will also cause dilution to our stockholders. Also, in order to issue securities at a price below the exercise prices of our outstanding warrants issued in connection with our past preferred stock private placement financings, we must obtain the affirmative consent of holders of at least 67% of each series of such outstanding warrants. If we are unable to obtain the consent of these holders in connection with future financings, we may be unable to raise additional capital on acceptable terms, or at all. If external financing sources are not available or are inadequate to fund our operations, we will be required to reduce operating costs, including research projects and personnel, which could jeopardize our future strategic initiatives and business plans.

Capital Requirements. We may also encounter unforeseen difficulties that may deplete our capital resources more rapidly than anticipated. As a result, we may be required to seek additional funding through equity, debt or other external financing, and there can be no assurance that additional funding will be available on favorable terms, in a timely fashion or at all. At this time, we have no significant commitments for capital expenditures in 2017 or beyond. However, our long-term capital requirements could be substantial and the adequacy of available funds will depend upon many factors, including:

the costs of commercialization activities, including sales and marketing costs and capital equipment; competing technological developments; the creation and formation of strategic partnerships;

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variability in third-party reimbursement for our diagnostic tests;

the costs associated with leasing and improving our Irvine, California facility; and

other factors that may not be within our control.

### **Off-Balance Sheet Arrangements**

As of December 31, 2016, we did not have any significant off-balance sheet arrangements, as defined in Item 303(a)(4)(ii) of Regulation S-K promulgated by the SEC. We have entered into an operating lease for our laboratory space and corporate offices, totaling approximately 12,200 square feet, expiring in early 2020. We have no significant commitments for capital expenditures for 2017 or beyond. We have executed nine capital leases totaling \$219,000 for certain laboratory and IT-related equipment, with lease payments continuing through November 2019.

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#### **Recent Accounting Pronouncements**

Refer to Note 2 to our consolidated financial statements included elsewhere in this report.

#### Item 7A. OUANTITATIVE AND OUALITATIVE DISCLOSURES ABOUT MARKET RISK

Not required for smaller reporting companies.

#### Item 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

The consolidated financial statements and related financial information required to be filed hereunder are indexed under Item 15 of this report and are incorporated herein by reference.

# Item 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

### Item 9A. CONTROLS AND PROCEDURES

#### Conclusion Regarding the Effectiveness of Disclosure Controls and Procedures

Under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, we conducted an evaluation of our disclosure controls and procedures, as such term is defined under Rules 13a-15(e) and 15d-15(e) promulgated under the Securities Exchange Act of 1934, as amended. Based on this evaluation, our principal executive officer and our principal financial officer concluded that, as of the end of the period covered by this annual report, our disclosure controls and procedures were effective to ensure that the information required to be disclosed by us in the reports that we file or submit under the Securities Exchange Act of 1934 is accumulated and communicated to management, including our chief executive officer and chief financial officer, to allow timely decisions regarding required disclosure, and that such information is recorded, processed, summarized and reported within the time periods prescribed by the SEC.

### Management s Report on Internal Controls Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal controls over financial reporting, as such term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). Under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, we conducted an evaluation of the effectiveness of our internal controls over financial reporting based on the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission, or COSO, in Internal Control-Integrated Framework (specifically, the 2013 Framework). Based on our evaluation under the framework in Internal Control Integrated Framework, our management concluded that our internal controls over financial reporting were effective as of December 31, 2016.

There has been no change in our internal controls over financial reporting that occurred during the fiscal quarter ended December 31, 2016 that has materially affected, or is reasonably expected to materially affect, our internal controls over financial reporting.

Item 9B. OTHER INFORMATION

None.

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#### **PART III**

#### Item 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Except as provided below, the information required by this Item is incorporated by reference from the information under the captions entitled Board of Directors, Executive Officers and Directors and Section 16(a) Beneficial Ownership Reporting Compliance in our definitive proxy statement to be filed with the SEC no later than 120 days after our most recent fiscal year end, which is December 31, 2016.

#### **Code of Business Conduct and Ethics**

We have adopted a corporate Code of Business Conduct and Ethics, which may be viewed on our website at <a href="https://www.combimatrix.com">www.combimatrix.com</a>. The Code of Business Conduct and Ethics applies to all our officers, directors and employees, including our principal executive officer, principal financial and accounting officer and controller, or persons performing similar functions. If we effect an amendment to, or waiver from, a provision of our Code of Business Conduct and Ethics, we intend to satisfy our disclosure requirements by posting a description of such amendment or waiver on the website above or via a current report on Form 8-K. The inclusion of our web site address in this report does not include or incorporate by reference the information on, or accessible through, our web site into this report.

### Item 11. EXECUTIVE COMPENSATION

The information required by this Item is incorporated by reference from the information under the caption entitled Executive Compensation and Other Information in our definitive proxy statement to be filed with the SEC no later than 120 days after our most recent fiscal year end, which is December 31, 2016.

# Item 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this Item is incorporated by reference from the information under the caption entitled Security Ownership of Certain Beneficial Owners and Management in our definitive proxy statement to be filed with the SEC no later than 120 days after our most recent fiscal year end, which is December 31, 2016.

# Item 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this Item is incorporated by reference from the information under the caption entitled Certain Transactions and Board of Directors in our definitive proxy statement to be filed with the SEC no later than 120 days after our most recent fiscal year end, which is December 31, 2016.

#### Item 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by this Item is incorporated by reference from the information under the caption entitled Principal Accountants in our definitive proxy statement to be filed with the SEC no later than 120 days after our most recent fiscal year end, which is December 31, 2016.

### **PART IV**

### Item 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

- (a) (1) Financial Statements See Index to Consolidated Financial Statements appearing on page F-1.
- (2) Financial Statement Schedules Schedules have been omitted, as they are not required for smaller reporting companies, not applicable or the information is otherwise included.
  - (3) Exhibits Refer to Item 15(b) below.
- (b) Exhibits. The following exhibits are either filed herewith or incorporated herein by reference:

Exhibit Number	Description
3.1	Amended and Restated Certificate of Incorporation. Incorporated by reference to Exhibit 3.1 to the Company s Registration Statement on Form S-1 (SEC File No. 333-139679) filed with the SEC on December 26, 2006.
3.2	Certificate of Amendment to Amended and Restated Certificate of Incorporation. Incorporated by reference to Exhibit 3.1A to the Company s Quarterly Report on Form 10-Q (File No. 001-33523) filed with the SEC on August 14, 2008.
3.3	Certificate of Amendment to Amended and Restated Certificate of Incorporation. Incorporated by reference to Exhibit 3.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on December 4, 2012.
3.4	Certificate of Designation of Preferences, Rights and Limitations of Series A 6% Convertible Preferred Stock. Incorporated by reference to Exhibit 3.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 1, 2012.
3.5	Certificate of Designation of Preferences, Rights and Limitations of Series B 6% Convertible Preferred Stock. Incorporated by reference to Exhibit 4.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on March 20, 2013.
3.6	Certificate of Designation of Preferences, Rights and Limitations of Series C 6% Convertible Preferred Stock. Incorporated by reference to Exhibit 3.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on May 6, 2013.
3.7	Certificate of Designation of Preferences, Rights and Limitations of Series D Convertible Preferred Stock. Incorporated by reference to Exhibit 3.1 to the Registrant s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on December 23, 2013.

3.8	Certificate of Designation of Preferences, Rights and Limitations of Series E 6% Convertible Preferred Stock. Incorporated by reference to Exhibit 4.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 13, 2015.
3.9	Certificate of Amendment to Amended and Restated Certificate of Incorporation. Incorporated by reference to Exhibit 3.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 29, 2015
3.10	Certificate of Amendment to Amended and Restated Certificate of Incorporation. Incorporated by reference to Exhibit 3.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on January 29, 2016.
3.11	Certificate of Designation of Preferences, Rights and Limitations of Series F Convertible Preferred Stock. Incorporated by reference to Exhibit 3.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on March 24, 2016.

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Exhibit Number	Description
3.12	Second Amended and Restated Bylaws. Incorporated by reference to Exhibit 3.2 to the Company s Annual Report on Form 10-K (File No. 001-33523) filed with the SEC on March 18, 2010.
4.1	Form of Common Stock Certificate. Incorporated by reference to Exhibit 4.1 to the Company s Registration Statement on Form S-1/A (File No. 333-208704) filed with the SEC on February 19, 2016.
4.2	Form of Series F Preferred Stock Certificate. Incorporated by reference to Exhibit 4.2 to the Company s Registration Statement on Form S-1/A (File No. 333-208704) filed with the SEC on March 18, 2016.
4.3	Form of Warrant to Purchase Common Stock. Incorporated by reference to Exhibit 10.3 to the Company s Quarterly Report on Form 10-Q (File No. 001-33523) filed with the SEC on May 10, 2016.
10.1	Restated Executive Change in Control Severance Plan, as restated on December 7, 2015. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on December 7, 2015.
10.2	Amendment No. 3 to Lease dated as of January 11, 2010. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on January 15, 2010.
10.3	Amendment No. 4 to the Lease effective as of October 21, 2012. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 25, 2012.
10.4	2006 Stock Incentive Plan, as amended. Incorporated by reference to Exhibit 10.4 to the Company s Annual Report on Form 10-K (File No. 001-33523) filed with the SEC on February 18, 2016.
10.5	Form of Stock Incentive Plan Agreement. Incorporated by reference to the Company s Registration Statement on Form S-1 (SEC File No. 333-139679), which became effective June 8, 2007.
10.6	Employment Agreement for Mark McDonough. Incorporated by reference to Exhibit 10.1 to the Company s Quarterly Report on Form 10-Q (File No. 001-33523) filed with the SEC on November 13, 2012.
10.7	Form of Amended and Restated Indemnification Agreement. Incorporated by reference to Exhibit 10.1 to the Company s Quarterly Report on Form 10-Q (File No. 001-33523) filed with the SEC on August 12, 2011.
10.8	Form of Securities Purchase Agreement dated as of April 1, 2011. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 7, 2011.
10.9	Form of Investors Rights Agreement dated as of April 1, 2011. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 7, 2011.
10.10	HLM Rights Agreement dated as of April 1, 2011. Incorporated by reference to Exhibit 10.3 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 7, 2011.
10.11	Form of Warrant to Purchase Common Stock issued on April 7, 2011. Incorporated by reference to Exhibit 10.4 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC

on April 7, 2011.

Form of Indemnity Agreement. Incorporated by reference to Exhibit 10.5 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 7, 2011.

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Exhibit	
<b>Number</b> 10.13	Description  Form of Securities Purchase Agreement dated as of September 28, 2012. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 1, 2012.
10.14	Form of Warrant to Purchase Common Stock. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 1, 2012.
10.15	Form of Registration Rights Agreement dated as of September 28, 2012. Incorporated by reference to Exhibit 10.3 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 1, 2012.
10.16	Form of Lock-Up Agreement dated as of September 28, 2012. Incorporated by reference to Exhibit 10.4 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 1, 2012.
10.17	Form of Voting Agreement dated as of September 28, 2012. Incorporated by reference to Exhibit 10.5 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 1, 2012.
10.18	Consent and Waiver executed on December 4, 2012. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on December 7, 2012.
10.19	Form of Amendment No. 1 to Common Stock Purchase Warrant dated February 26, 2013. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 26, 2013.
10.20	Form of Warrant to Purchase Common Stock. Incorporated by reference to Exhibit 4.3 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on March 20, 2013.
10.21	Form of Securities Purchase Agreement dated as of March 19, 2013. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on March 20, 2013.
10.22	Mark McDonough Compensation Arrangement. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 3, 2013.
10.23	Form of Waiver Regarding HLM Rights Agreement dated April 5, 2013. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 8, 2013.
10.24	Form of Securities Purchase Agreement dated as of May 3, 2013. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on May 6, 2013.
10.25	Form of Warrant to Purchase Common Stock. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on May 6, 2013.
10.26	Form of Registration Rights Agreement dated as of May 3, 2013. Incorporated by reference to Exhibit 10.3 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on May 6, 2013.
10.27	Form of Voting Agreement dated as of May 3, 2013. Incorporated by reference to Exhibit 10.4 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on May 6, 2013.

Exhibit Number	Description
10.28	Form of Stock Incentive Plan Agreement for Performance-Based Options. Incorporated by reference to Exhibit 10.11 to the Company s Quarterly Report on Form 10-Q (File No. 001-33523) filed with the SEC on May 13, 2013.
10.29	Letter Agreement dated June 27, 2013 regarding Mark McDonough s bonus arrangement. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on July 1, 2013.
10.30	Amendment No. 5 to Lease effective as of July 16, 2013. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on July 19, 2013.
10.31	Form of Warrant to Purchase Common Stock. Incorporated by reference to Exhibit 4.3 to the Company s Registration Statement on Form S-1/A (File No. 333-191211) filed with the SEC on December 9, 2013.
10.32	2014 Executive Performance Bonus Plan, as amended. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on March 10, 2014.
10.33	Form of Restricted Stock Unit Award Agreement under the Company s 2006 Stock Incentive Plan. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 24, 2014.
10.34	Form of Amendment No. 2 to Common Stock Purchase Warrant dated June 4, 2014. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on June 10, 2014.
10.35	Form of Additional Common Stock Purchase Warrant issued June 4, 2014. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on June 10, 2014.
10.36	Amendment No. 6 to the Lease effective as of October 24, 2014. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 28, 2014.
10.37	Form of Warrant to Purchase Common Stock (Series E Financing). Incorporated by reference to Exhibit 4.3 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 13, 2015.
10.38	Form of Amendment of Outstanding Warrants. Incorporated by reference to Exhibit 4.5 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 13, 2015.
10.39	Form of Securities Purchase Agreement dated as of February 13, 2015 (Series E Financing). Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 13, 2015.
10.40	Form of Private Placement Securities Purchase Agreement dated as of February 13, 2015 (Warrant Financing). Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 13, 2015.
10.41	2015 Executive Performance Bonus Plan. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on March 5, 2015.
10.42	Collaboration Agreement, effective May 23, 2013, between CombiMatrix and Sequenom Center for Molecular Medicine, LLC. Incorporated by reference to Exhibit 10.42 to the Company s Annual Report

on Form 10-K (File No. 001-33523) filed with the SEC on March 17, 2015.

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Exhibit	
Number 10.43	Agreement of Settlement and Release, dated April 23, 2015. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 28, 2015.
10.44	Form of Amendment No. 1 to February 2015 Common Stock Purchase Warrant dated October 12, 2015. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 13, 2015.
10.45	Form of Amendment No. 1 to April 2015 Common Stock Purchase Warrant dated October 12, 2015. Incorporated by reference to Exhibit 10.2 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 13, 2015.
10.46	Form of Waiver of Cash Dividends dated October 12, 2015. Incorporated by reference to Exhibit 10.3 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on October 13, 2015.
10.47	Transaction Bonus Plan. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on December 7, 2015.
10.48	Form of Series E 6% Convertible Preferred Stock Repurchase Agreement. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 5, 2016.
10.49	Form of Leak-Out Agreement. Incorporated by reference to Exhibit 10.49 to the Company s Registration Statement on Form S-1/A (File No. 333-208704) filed with the SEC on March 18, 2016.
10.50	Form of Common Stock Purchase Warrants Repurchase Agreement. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on July 11, 2016.
10.51	2016 Executive Performance Bonus Plan. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on April 27, 2016.
10.52	2017 Executive Performance Bonus Plan. Incorporated by reference to Exhibit 10.1 to the Company s Current Report on Form 8-K (File No. 001-33523) filed with the SEC on February 3, 2017.
21.1	Subsidiaries of the Registrant(*)
23.1	Consent of Haskell & White LLP(*)
31.1	Certification of Chief Executive Officer pursuant to section 302 of the Sarbanes-Oxley Act of 2002(*).
31.2	Certification of Chief Financial Officer pursuant to section 302 of the Sarbanes-Oxley Act of 2002(*).
32.1	Certification of Chief Executive Officer pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith).
32.2	Certification of Chief Financial Officer pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith).
101.0	The following materials from CombiMatrix Corporation s Annual Report on Form 10-K for the year ended December 31, 2016, formatted in XBRL (eXtensible Business Reporting Language): (i) Consolidated Balance Sheets as of December 31, 2016 and December 31, 2015; (ii) Consolidated Statements of Operations for the Years ended December 31, 2016 and 2015; (iii) Consolidated Statements of Comprehensive Loss for the Years ended December 31, 2016 and 2015; (iv) Consolidated

Statements of Stockholders Equity for the Years ended December 31, 2016 and 2015 (v) Consolidated Statements of Cash Flows for the Years ended December 31, 2016 and 2015; and (vi) Notes to Consolidated Financial Statements.

(\*) Included herewith.

Denotes management contract or compensatory plan or arrangement.

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### **SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Dated: March 3, 2017

#### COMBIMATRIX CORPORATION

/s/ MARK MCDONOUGH
Mark McDonough
President and

Chief Executive Officer

(Authorized Signatory)

Pursuant to the requirements of the Securities and Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and the capacities and on the dates indicated.

Signature	Title	Date
/s/ MARK MCDONOUGH	President and Chief Executive Officer,	March 3, 2017
Mark McDonough	Director (Principal Executive Officer)	
/s/ SCOTT R. BURELL	Chief Financial Officer, Treasurer and Secretary (Principal Financial and	March 3, 2017
Scott R. Burell	Accounting Officer)	
/s/ R. JUDD JESSUP	Chairman of the Board	March 3, 2017
R. Judd Jessup		
/s/ JEREMY M. JONES	Director	March 3, 2017
Jeremy M. Jones		
/s/ ROBERT E. HOFFMAN	Director	March 3, 2017
Robert E. Hoffman		
/s/ LÂLE WHITE	Director	March 3, 2017
Lâle White		

/s/ DIRK VAN DEN BOOM

Director

March 3, 2017

Dirk van den Boom, Ph.D.

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### **COMBIMATRIX CORPORATION**

### INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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### REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders

CombiMatrix Corporation

Irvine, California

We have audited the accompanying consolidated balance sheets of CombiMatrix Corporation (the Company) as of December 31, 2016 and December 31, 2015, and the related consolidated statements of operations, comprehensive loss, stockholders equity, and cash flows for each of the years then ended. These consolidated financial statements are the responsibility of the Company s management. Our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement. The Company has determined that it is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company s internal control over financial reporting. Accordingly, we express no such opinion. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the consolidated financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall consolidated financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of CombiMatrix Corporation as of December 31, 2016 and December 31, 2015, and the consolidated results of its operations and its cash flows for each of the years then ended, in conformity with accounting principles generally accepted in the United States.

/S/ HASKELL & WHITE LLP

Irvine, California

March 3, 2017

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### **COMBIMATRIX CORPORATION**

### CONSOLIDATED BALANCE SHEETS

# As of December 31, 2016 and 2015

(In thousands, except share and per share information)

	December 31,			
	2016		2015	
ASSETS				
Current assets:				
Cash and cash equivalents	\$	2,727	\$	653
Short-term investments		1,000		3,248
Accounts receivable, net of allowance for doubtful accounts of \$232 and \$235		3,351		2,682
Supplies		599		418
Prepaid expenses and other assets		174		200
Total current assets		7,851		7,201
Property and equipment, net		597		691
Other assets		30		30
Total assets	\$	8,478	\$	7,922
LIABILITIES AND STOCKHOLDERS EQUITY				
Current liabilities:				
Accounts payable, accrued expenses and other	\$	1,689	\$	1,591
Current portion, long-term debt		100		193
Total current liabilities		1,789		1,784
Capital lease obligations, net of current portion		50		71
Secured promissory note payable, net of current portion				34
Deferred rent		145		177
Total liabilities		1,984		2,066
Commitments and contingencies (Note 9)				
Stockholders equity:				
Convertible preferred stock; \$0.001 par value; 5,000,000 shares authorized;				
Series E 2,202 shares authorized; none and 2,201.493 issued and outstanding				
Series F 8,000 shares authorized; 969 and none issued and outstanding				
Common stock; \$0.001 par value; 50,000,000 shares authorized; 2,673,756 and				
845,374 shares issued and outstanding		15		13
Additional paid-in capital		109,068	1	02,651
Accumulated other comprehensive loss				(2)
Accumulated deficit	(	102,589)	(	96,806)

Total stockholders equity	6,494	5,856
Total liabilities and stockholders equity	\$ 8,478	\$ 7,922

The accompanying notes are an integral part of these consolidated financial statements.

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### **COMBIMATRIX CORPORATION**

### CONSOLIDATED STATEMENTS OF OPERATIONS

# For the Years Ended December 31, 2016 and 2015

(In thousands, except share and per share information)

	For the Yea			
	2016		2015	
Revenues:				
Diagnostic services	\$ 12,696	\$	9,941	
Royalties	173		147	
Total revenues	12,869		10,088	
Operating expenses:				
Cost of services	5,787		5,444	
Research and development	493		466	
Sales and marketing	4,569		4,979	
General and administrative	6,013		5,540	
Patent amortization and royalties	100		100	
Impairment of cost-basis investment			97	
Total operating expenses	16,962		16,626	
Operating loss	(4,093)		(6,538)	
Other income (expenses):			4.6	
Interest income	22		16	
Interest expense	(69)		(79)	
Total other income (expense)	(47)		(63)	
Net loss	\$ (4,140)	\$	(6,601)	
Deemed dividend from issuing Series F convertible preferred stock and warrants	\$ (1,877)	\$		
Deemed dividend paid for right to repurchase Series E convertible preferred stock	(656)			
Deemed dividend from issuing and modifying Series E convertible preferred stock and warrants	890		(1,058)	
Net loss attributable to common stockholders	\$ (5,783)	\$	(7,659)	
Basic and diluted net loss per share	\$ (2.34)	\$	(7.95)	
Deemed dividend from issuing Series F convertible preferred stock and warrants	(1.06)		,	

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Deemed dividend paid for right to repurchase Series E convertible preferred stock		(0.37)		
Deemed dividend from issuing and modifying Series E convertible preferred stock				
and warrants		0.50		(1.27)
Basic and diluted net loss per share attributable to common stockholders	\$	(3.27)	\$	(9.22)
Basic and diluted weighted average common shares outstanding	1,	768,090	8	30,835

The accompanying notes are an integral part of these consolidated financial statements.

### **COMBIMATRIX CORPORATION**

### CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS

For the Years Ended December 31, 2016 and 2015

(In thousands, except share and per share information)

	For the Years Ended		
	Decemb	ber 31,	
	2016	2015	
Net loss	\$ (4,140)	\$ (6,601)	
Unrealized gain on available-for-sale investments	2	1	
Total comprehensive loss	\$ (4,138)	\$ (6,600)	

The accompanying notes are an integral part of these consolidated financial statements.

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### **COMBIMATRIX CORPORATION**

# CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY

# For the Years Ended December 31, 2016 and 2015

(In thousands, except share information)

	Series E Convertible		Seri	ies F	Accumulated							
			Convertible		Comm	on	Additional Other				Total	
	Preferred	l Stock	<b>Preferred Stock</b>		Stock	<b>K</b>	Paid Comprehensivenula				t <b>St</b> ockholders	
	Shares	Amount	Shares	Amount	Shares A	moui	nt Ca	apital	Loss	Deficit	Eq	uity
Balances,												
December 31,												
2014		\$		\$	737,528	\$11	\$ 9	96,259	\$(3)	\$ (89,147)	\$ 7	,120
Issuance of Series												
E convertible												
preferred stock												
and common	2 201 402				102 000	2		1 601			4	602
stock, net Beneficial	2,201.493				102,800	2		4,681			4	,683
conversion												
feature of Series												
E convertible												
preferred stock		(890)						890				
Deemed		(===)										
dividends from												
issuance of Series												
E convertible												
preferred stock		890								(890)		
Deemed												
dividends from												
modification of												
Series E convertible												
preferred stock												
and warrants								168		(168)		
Vesting of								100		(100)		
restricted stock												
units					5,046							
Issuance costs												
from various												
securities filings								(34)				(34)
Non-cash stock												
compensation								687				687
									1			1

Unrealized gain on available-for-sale investments									
Net loss								(6,601)	(6,601)
Balances,									
December 31, 2015	2,201.493			845,374	13	102,651	(2)	(96,806)	5,856
Conversion of Series E convertible									
preferred stock	(16)			599					
Premium paid to redeem Series E convertible									
preferred stock								(656)	(656)
Issuance of Series F convertible preferred stock									
and warrants, net		8,000.0				6,885			6,885
Beneficial conversion feature of Series F convertible									
preferred stock			(1,877)			1,877			
Deemed dividends from issuance of Series F convertible									
preferred stock			1,877					(1,877)	