

MARVELL TECHNOLOGY GROUP LTD
Form SC 13G/A
March 12, 2001

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934
(Amendment)

NAME OF ISSUER	MARVELL TECHNOLOGIES GROUP LTD
TITLE OF CLASS OF SECURITIES	Common
CUSIP NUMBER	G5876H105

The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. G5876H105

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1. Name of reporting person

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S.S. or I.R.S. identification no. of above person

Marsh & McLennan Companies, Inc.
36-2668272

2. Check the appropriate box if a member of a group*
(a) () (b) ()

3. SEC use only

4. Citizenship or place of organization

Delaware

5. Sole Voting Power

NONE

Number of shares) 6. Shared Voting Power

Beneficially)

Owned by each)

Reporting)

Person with:) 7. Sole Dispositive Power

NONE

NONE

8. Shared Dispositive Power

NONE

9. Aggregate amount beneficially owned by each reporting person

NONE

10. Check box if the aggregate amount in row (9) excludes certain shares*

11. Percent of class represented by amount in row 9

NONE

12. Type of Reporting person*

HC

13G

CUSIP No. G5876H105

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1. Name of reporting person
S.S. or I.R.S. identification no. of above person

Putnam Investments, LLC.
04-2539558

2. Check the appropriate box if a member of a group*
(a) () (b) ()

3. SEC use only

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4. Citizenship or place of organization

Massachusetts

5. Sole Voting Power

NONE

Number of shares)
Beneficially) 6. Shared Voting Power
owned by each)

491,410

Reporting)
Person with:)

7. Sole Dispositive Power

NONE

8. Shared Dispositive Power

11,518,762

9. Aggregate amount beneficially owned by each reporting person

11,518,762

10. Check box if the aggregate amount in row (9) excludes certain shares*

11. Percent of class represented by amount in row 9

13.5%

12. Type of Reporting person*

HC

13G

CUSIP No. G5876H105

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1. Name of reporting person
S.S. or I.R.S. identification no. of above person

Putnam Investment Management, LLC.
04-2471937

2. Check the appropriate box if a member of a group*
(a) () (b) ()

3. SEC use only

4. Citizenship or place of organization

Massachusetts

5. Sole Voting Power

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Number of shares)
 Beneficially) 6. Shared Voting Power
 Owned by each)
 Reporting)
 Person with:)

NONE

7. Sole Dispositive Power

NONE

8. Shared Dispositive Power

9,911,623

9. Aggregate amount beneficially owned by each reporting person

9,911,623

10. Check box if the aggregate amount in row (9) excludes certain shares*

11. Percent of class represented by amount in row 9

11.6%

12. Type of Reporting person*

IA

13G

CUSIP No. G5876H105

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1. Name of reporting person
 S.S. or I.R.S. identification no. of above person

The Putnam Advisory Company, LLC.
 04-6187127

2. Check the appropriate box if a member of a group*
 (a) () (b) ()

3. SEC use only

4. Citizenship or place of organization

Massachusetts

5. Sole Voting Power

Number of shares)
 Beneficially) 6. Shared Voting Power
 Owned by each)
 Reporting)
 Person with:)

NONE

491,410

7. Sole Dispositive Power

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NONE

8. Shared Dispositive Power

1,607,139

9. Aggregate amount beneficially owned by each reporting person

1,607,139

10. Check box if the aggregate amount in row (9) excludes certain shares*

11. Percent of class represented by amount in row 9

1.9%

12. Type of Reporting person*

IA

13G

CUSIP No. G5876H105

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1. Name of reporting person
S.S. or I.R.S. identification no. of above person

Putnam New Opportunities Fund
04-3091455

2. Check the appropriate box if a member of a group*
(a) () (b) ()

3. SEC use only

4. Citizenship or place of organization

Massachusetts

5. Sole Voting Power

NONE

Number of shares)
Beneficially) 6.
Owned by each)
Reporting)
Person with:)

Shared Voting Power

NONE

7. Sole Dispositive Power

NONE

8. Shared Dispositive Power

5,081,029

9. Aggregate amount beneficially owned by each reporting person

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5,081,029

10. Check box if the aggregate amount in row (9) includes certain shares*

11. Percent of class represented by amount in row 9

5.9369606%

12. Type of Reporting person*

IC

SECURITIES AND EXCHANGE COMMISSION
Washington, D. C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

Item 1(a) Name of Issuer: MARVELL TECHNOLOGIES GROUP LTD

Item 1(b) Address of Issuer's Principal Executive Offices:

2 CHURCH STREET CLARENDON HOUSE, PO BOX HM 1022, HAMILTON HM BERMUDA D0

Item 2(a)

Item 2(b)

Name of Person Filing:
NONE, Residence:

Address or Principal Office or, if

Putnam Investments, LLC.
("PI")
on behalf of itself and:

One Post Office Square
Boston, Massachusetts 02109

*Marsh & McLennan Companies, Inc.
("MMC")

1166 Avenue of the Americas
New York, NY 10036

Putnam Investment Management, LLC.
("PIM")

One Post Office Square
Boston, Massachusetts 02109

The Putnam Advisory Company, LLC.
("PAC")

One Post Office Square
Boston, Massachusetts 02109

**Putnam New Opportunities Fund

One Post Office Square
Boston, Massachusetts 02109

Item 2(c) Citizenship: PI, PIM and PAC are limited liability companies organized under Massachusetts law. The citizenship of other persons identified in Item 2(a) is designated as follows:

* Corporation - Delaware law

** Voluntary association known as Massachusetts business trust -

Massachusetts law

Item 2(d) Title of Class of Securities: Common

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Item 2(e) Cusip Number: G5876H105

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Item 3. If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b), check whether the person filing is a:

- (a) () Broker or Dealer registered under Section 15 of the Act
- (b) () Bank as defined in Section 3(a)(6) of the Act
- (c) () Insurance Company as defined in Section 3(a)(19) of the Act
- (d) (X) Investment Company registered under Section 8 of the Investment Company Act
- (e) (X) Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940
- (f) () Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund; see (Section 240.13d-1(b)(1)(ii)(F))
- (g) (X) Parent Holding Company, in accordance with Section 240.13d-1(b)(ii)(G)
- (h) () Group, in accordance with Section 240.13d-1(b)(1)(ii)(H)

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Item 4.
Ownership.

	M&MC ----- (Parent holding company to PI)	PIM* ----- (Investment advisers & subsidiaries of PI)		
(a) Amount Beneficially Owned:	NONE	9,911,623	+	1
(b) Percent of Class:	NONE	11.6%		+
(c) Number of shares as to which such person has:				

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(1)	sole power to vote or to direct the vote; (but see Item 7)	NONE	NONE
(2)	shared power to vote or to direct the vote; (but see Item 7) 491,410	NONE	NONE
(3)	sole power to dispose or to direct the disposition of; (but see Item 7)	NONE	NONE
(4)	shared power to dispose or to direct the disposition of; (but see Item 7)	NONE	ALL

*As part of the Putnam Family of Funds, and the 9,911,623 shares held by PIM, Putnam New Opportun held 5.9369606% or 5,081,029 shares.

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Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date thereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following ().

Item 6. Ownership of More than Five/Ten Percent on Behalf of Another Person:

No persons other than the persons filing this Schedule 13G have an economic interest in the securities reported on which relates to more than five percent of the class of securities. Securities reported on this Schedule 13G as being beneficially owned by M&MC and PI consist of securities beneficially owned by subsidiaries of PI which are registered investment advisers, which in turn include securities beneficially owned by clients of such investment advisers, which clients may include investment companies registered under the Investment Company Act and/or employee benefit plans, pension funds, endowment funds or other institutional clients.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

PI, which is a wholly-owned subsidiary of M&MC, wholly owns two registered investment advisers: Putnam Investment Management, LLC., which is the investment adviser to the Putnam family of mutual funds and The Putnam Advisory Company, LLC., which is the investment adviser to Putnam's institutional clients. Both subsidiaries have dispositive power over the shares as investment managers, but each of the mutual fund's trustees have voting power over the shares held by each fund, and The Putnam Advisory Company, LLC. has shared voting power over the shares held by the institutional clients. Pursuant to Rule 13d-4, M&MC and PI declare that the filing of this Schedule 13G shall not be deemed an admission by either or both of them that they are, for the purposes

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of Section 13(d) or 13(g) the beneficial owner of any securities covered by this Section 13G, and further state that neither of them have any power to vote or dispose of, or direct the voting or disposition of, any of the securities covered by this Schedule 13G.

Item 8. Identification and Classification of Members of the Group:
Not applicable.

Item 9. Notice of Dissolution of Group:
Not applicable.

Item 10. Certification.

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By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business, were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

PUTNAM INVESTMENTS, LLC.

BY: /s/Gregory L. Pickard

Signature

Name/Title: Gregory L. Pickard
Assistant Vice President and Associate Counsel

Date: March 12, 2001

For this and all future filings, reference is made to Power of Attorney dated May 3, 2000, with respect to duly authorized signatures on behalf of Marsh & McLennan Companies, Inc., Putnam Investments, LLC., Putnam Investment Management, LLC., The Putnam Advisory Company, LLC. and any Putnam Fund wherever applicable.

For this and all future filings, reference is made to an Agreement dated June 28, 1990, with respect to one filing of Schedule 13G on behalf of said entities, pursuant to Rule 13d-1(f)(1).

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NT STYLE="font-size: 9pt">(2)See "Use of proceeds and hedging" on page 31.

The securities involve risks not associated with an investment in ordinary debt securities. See “Risk Factors” beginning on page 13.

The Securities and Exchange Commission and state securities regulators have not approved or disapproved these securities, or determined if this document or the accompanying product supplement, index supplement and prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The securities are not deposits or savings accounts and are not insured by the Federal Deposit Insurance Corporation or any other governmental agency or instrumentality, nor are they obligations of, or guaranteed by, a bank.

You should read this document together with the related product supplement, index supplement and prospectus, each of which can be accessed via the hyperlinks below. Please also see “Additional Terms of the Securities” and “Additional Information About the Securities” at the end of this document.

As used in this document, “we,” “us” and “our” refer to Morgan Stanley or MSFL, or Morgan Stanley and MSFL collectively, as the context requires.

[Product Supplement for Auto-Callable Securities dated November 16, 2017](#) [Index Supplement dated November 16, 2017](#) [Prospectus dated November 16, 2017](#)

Morgan Stanley Finance LLC

Contingent Income Auto-Callable Securities due April 30, 2024, with 1-Year Initial Non-Call Period

All Payments on the Securities Based on the Worst Performing of the Russell 2000[®] Index, the NASDAQ-100 Index[®] and the Dow Jones Industrial AverageSM

Principal at Risk Securities

Terms continued from previous page:

The securities are not subject to automatic early redemption until one year after the original issue date. Following this initial 1-year non-call period, if, on any redemption determination date, beginning on April 27, 2020, the index closing value of **each** underlying index is **greater than or equal to** its respective initial index value, the securities will be automatically redeemed for an early redemption payment on the related early redemption date. No further payments will be made on the securities once they have been redeemed.

Early redemption:

The securities will not be redeemed early on any early redemption date if the index closing value of any underlying index is below the respective initial index value for such underlying index on the related redemption determination date.

Early redemption payment: The early redemption payment will be an amount equal to the stated principal amount for each security you hold *plus* the contingent monthly coupon with respect to the related observation date.

Redemption determination dates:

Beginning after one year, quarterly, on April 27, 2020, July 27, 2020, October 26, 2020, January 25, 2021, April 26, 2021, July 26, 2021, October 25, 2021, January 25, 2022, April 25, 2022, July 25, 2022, October 25, 2022, January 25, 2023, April 25, 2023, July 25, 2023, October 25, 2023 and January 25, 2024, subject to postponement for non-index business days and certain market disruption events.

Early redemption dates:

Beginning after one year, quarterly, on April 30, 2020, July 30, 2020, October 29, 2020, January 28, 2021, April 29, 2021, July 29, 2021, October 28, 2021, January 28, 2022, April 28, 2022, July 28, 2022, October 28, 2022, January 30, 2023, April 28, 2023, July 28, 2023, October 30, 2023 and January 30, 2024. If any such day is not a business day, that early redemption payment will be made on the next succeeding business day and no adjustment will be made to any early redemption payment made on that succeeding business day

With respect to the RTY Index: , which is 60% of its initial index value

Downside threshold level:

With respect to the NDX Index: , which is 60% of its initial index value

With respect to the INDU Index: , which is 60% of its initial index value

With respect to the RTY Index: , which is 70% of its initial index value

Coupon threshold level:

With respect to the NDX Index: , which is 70% of its initial index value

With respect to the INDU Index: , which is 70% of its initial index value

With respect to the RTY Index: , which is its index closing value on the pricing date

Initial index value:

With respect to the NDX Index: , which is its index closing value on the pricing date

With respect to the INDU Index: , which is its index closing value on the pricing date

Final index value:

With respect to each index, the respective index closing value on the final observation date

Worst performing underlying Index performance factor:	The underlying index with the largest percentage decrease from the respective initial index value to the respective final index value
Coupon payment dates:	Final index value <i>divided by</i> the initial index value
Observation dates:	Monthly, beginning May 31, 2019, as set forth under “Observation Dates and Coupon Payment Dates” below; <i>provided</i> that if any such day is not a business day, that coupon payment will be made on the next succeeding business day and no adjustment will be made to any coupon payment made on that succeeding business day. The contingent monthly coupon, if any, with respect to the final observation date will be paid on the maturity date
CUSIP / ISIN:	Monthly, as set forth under “Observation Dates and Coupon Payment Dates” below, subject to postponement for non-index business days and certain market disruption events. We also refer to the observation date immediately prior to the scheduled maturity date as the final observation date.
Listing:	61768D5N1 / US61768D5N19
	The securities will not be listed on any securities exchange.

Observation Dates and Coupon Payment Dates

Observation Dates Coupon Payment Dates

5/28/2019	5/31/2019
6/25/2019	6/28/2019
7/25/2019	7/30/2019
8/26/2019	8/29/2019
9/25/2019	9/30/2019
10/25/2019	10/30/2019
11/25/2019	11/29/2019
12/26/2019	12/31/2019
1/27/2020	1/30/2020
2/25/2020	2/28/2020
3/25/2020	3/30/2020
4/27/2020	4/30/2020
5/26/2020	5/29/2020
6/25/2020	6/30/2020
7/27/2020	7/30/2020
8/25/2020	8/28/2020
9/25/2020	9/30/2020
10/26/2020	10/29/2020
11/25/2020	12/1/2020
12/28/2020	12/31/2020
1/25/2021	1/28/2021
2/25/2021	3/2/2021
3/25/2021	3/30/2021
4/26/2021	4/29/2021

Morgan Stanley Finance LLC

Contingent Income Auto-Callable Securities due April 30, 2024, with 1-Year Initial Non-Call Period

All Payments on the Securities Based on the Worst Performing of the Russell 2000[®] Index, the NASDAQ-100 Index[®] and the Dow Jones Industrial AverageSM

Principal at Risk Securities

Observation Dates	Coupon Payment Dates
5/25/2021	5/28/2021
6/25/2021	6/30/2021
7/26/2021	7/29/2021
8/25/2021	8/30/2021
9/27/2021	9/30/2021
10/25/2021	10/28/2021
11/26/2021	12/1/2021
12/27/2021	12/30/2021
1/25/2022	1/28/2022
2/25/2022	3/2/2022
3/25/2022	3/30/2022
4/25/2022	4/28/2022
5/25/2022	5/31/2022
6/27/2022	6/30/2022
7/25/2022	7/28/2022
8/25/2022	8/30/2022
9/26/2022	9/29/2022
10/25/2022	10/28/2022
11/25/2022	11/30/2022
12/27/2022	12/30/2022
1/25/2023	1/30/2023
2/27/2023	3/2/2023
3/27/2023	3/30/2023
4/25/2023	4/28/2023
5/25/2023	5/31/2023
6/26/2023	6/29/2023
7/25/2023	7/28/2023
8/25/2023	8/30/2023
9/25/2023	9/28/2023
10/25/2023	10/30/2023
11/27/2023	11/30/2023
12/26/2023	12/29/2023
1/25/2024	1/30/2024
2/26/2024	2/29/2024
3/25/2024	3/28/2024
4/25/2024 (final observation date)	4/30/2024 (maturity date)

Morgan Stanley Finance LLC

Contingent Income Auto-Callable Securities due April 30, 2024, with 1-Year Initial Non-Call Period

All Payments on the Securities Based on the Worst Performing of the Russell 2000[®] Index, the NASDAQ-100 Index[®] and the Dow Jones Industrial AverageSM

Principal at Risk Securities

Investment Summary

Contingent Income Auto-Callable Securities

Principal at Risk Securities

Contingent Income Auto-Callable Securities due April 30, 2024, with 1-Year Initial Non-Call Period All Payments on the Securities Based on the Worst Performing of the Russell 2000[®] Index, the NASDAQ-100 Index[®] and the Dow Jones Industrial AverageSM (the “securities”) do not provide for the regular payment of interest. Instead, the securities will pay a contingent monthly coupon **but only if** the index closing value of **each** underlying index is **at or above** its respective **coupon threshold level** on the related observation date. However, if the index closing value of **any** underlying index is **less than** its respective **coupon threshold level** on any observation date, we will pay no interest for the related monthly period. If the index closing value of **any** underlying index is **less than** its respective **coupon threshold level** on each observation date, you will not receive any contingent monthly coupon for the entire 5-year term of the securities. We refer to these coupons as contingent, because there is no guarantee that you will receive a coupon payment on any coupon payment date. Even if each underlying index were to be at or above its respective coupon threshold level on some quarterly observation dates, they may not all close at or above their respective coupon threshold levels on other observation dates, in which case you will not receive some contingent monthly coupon payments. In addition, if the securities have not been automatically called prior to maturity and the final index value of **any underlying index** is **less than** its respective downside threshold level, investors will be fully exposed to the decline in the worst performing underlying index on a 1-to-1 basis, and will receive a payment at maturity that is less than 60% of the stated principal amount of the securities and could be zero. **Accordingly, investors in the securities must be willing to accept the risk of losing their entire initial investment and also the risk of not receiving any contingent monthly coupons throughout the entire 5-year term of the securities.**

Maturity: 5 years

Contingent monthly coupon: *A contingent monthly coupon* will be paid on the securities on each coupon payment date **but only if** the index closing value of **each** underlying index is at or above its respective **coupon threshold level** on the related observation date. If payable, the contingent monthly coupon will be an amount in cash per stated principal amount corresponding to a return of 5.50% to 7.50% *per annum* (to be determined on the pricing date) for each interest payment period for each applicable observation date. **If, on any observation date, the index closing value of any**

underlying index is less than the respective coupon threshold level, we will pay no coupon for the applicable monthly period.

Automatic early redemption beginning after one year:

If the index closing value of **each** underlying index is **greater than or equal to** its **initial index value** on any of the sixteen quarterly redemption determination dates, beginning on April 27, 2020 (approximately one year after the original issue date), the securities will be automatically redeemed for an early redemption payment equal to the stated principal amount *plus* the contingent monthly coupon with respect to the related observation date. No further payments will be made on the securities once they have been redeemed.

If the securities have not been automatically redeemed prior to maturity, the payment at maturity will be determined as follows:

Payment at maturity:

If the final index value of **each** underlying index is **greater than or equal to** its respective downside threshold level, investors will receive the stated principal amount and, if the final index value of **each** underlying index is also **greater than or equal to** its respective **coupon threshold level**, the contingent monthly coupon with respect to the final observation date.

If the final index value of **any** underlying index is **less than** its downside threshold level, investors will receive a payment at maturity equal to the stated principal amount *times* the index performance factor of the worst performing underlying index. Under these circumstances, the payment at maturity will be less than 60% of the stated

Morgan Stanley Finance LLC

Contingent Income Auto-Callable Securities due April 30, 2024, with 1-Year Initial Non-Call Period

All Payments on the Securities Based on the Worst Performing of the Russell 2000[®] Index, the NASDAQ-100 Index[®] and the Dow Jones Industrial AverageSM

Principal at Risk Securities

principal amount of the securities and could be zero. No monthly coupon will be payable at maturity. **Accordingly, investors in the securities must be willing to accept the risk of losing their entire initial investment.**

The original issue price of each security is \$1,000. This price includes costs associated with issuing, selling, structuring and hedging the securities, which are borne by you, and, consequently, the estimated value of the securities on the pricing date will be less than \$1,000. We estimate that the value of each security on the pricing date will be approximately \$940.70, or within \$30.00 of that estimate. Our estimate of the value of the securities as determined on the pricing date will be set forth in the final pricing supplement.

What goes into the estimated value on the pricing date?

In valuing the securities on the pricing date, we take into account that the securities comprise both a debt component and a performance-based component linked to the underlying indices. The estimated value of the securities is determined using our own pricing and valuation models, market inputs and assumptions relating to the underlying indices, instruments based on the underlying indices, volatility and other factors including current and expected interest rates, as well as an interest rate related to our secondary market credit spread, which is the implied interest rate at which our conventional fixed rate debt trades in the secondary market.

What determines the economic terms of the securities?

In determining the economic terms of the securities, including the contingent monthly coupon rate, the coupon threshold levels and the downside threshold levels, we use an internal funding rate, which is likely to be lower than our secondary market credit spreads and therefore advantageous to us. If the issuing, selling, structuring and hedging costs borne by you were lower or if the internal funding rate were higher, one or more of the economic terms of the securities would be more favorable to you.

What is the relationship between the estimated value on the pricing date and the secondary market price of the securities?

The price at which MS & Co. purchases the securities in the secondary market, absent changes in market conditions, including those related to the underlying indices, may vary from, and be lower than, the estimated value on the pricing date, because the secondary market price takes into account our secondary market credit spread as well as the bid-offer spread that MS & Co. would charge in a secondary market transaction of this type and other factors. However, because the costs associated with issuing, selling, structuring and hedging the securities are not fully deducted upon issuance, for a period of up to 6 months following the issue date, to the extent that MS & Co. may buy or sell the securities in the secondary market, absent changes in market conditions, including those related to the underlying indices, and to our secondary market credit spreads, it would do so based on values higher than the estimated value. We expect that those higher values will also be reflected in your brokerage account statements.

MS & Co. may, but is not obligated to, make a market in the securities, and, if it once chooses to make a market, may cease doing so at any time.

April 2019 Page 5

Morgan Stanley Finance LLC

Contingent Income Auto-Callable Securities due April 30, 2024, with 1-Year Initial Non-Call Period

All Payments on the Securities Based on the Worst Performing of the Russell 2000[®] Index, the NASDAQ-100 Index[®] and the Dow Jones Industrial AverageSM

Principal at Risk Securities

Key Investment Rationale

The securities do not provide for the regular payment of interest. Instead, the securities will pay a contingent monthly coupon **but only if** the index closing value of **each** underlying index is **at or above** its respective **coupon threshold level** on the related observation date. However, if the index closing value of **any** underlying index is **less than** its respective **coupon threshold level** on any observation date, we will pay no interest for the related monthly period. The securities have been designed for investors who are willing to forgo market floating interest rates and accept the risk of receiving no coupon payments for the entire 5-year term of the securities in exchange for an opportunity to earn interest at a potentially above-market rate if each underlying index closes at or above its respective coupon threshold level on the quarterly observation dates until the securities are redeemed early or reach maturity.

The following scenarios are for illustrative purposes only to demonstrate how the coupon and the payment at maturity (if the securities have not previously been redeemed) are calculated, and do not attempt to demonstrate every situation that may occur. Accordingly, the securities may or may not be redeemed, the contingent monthly coupon may be payable in none of, or some but not all of, the monthly periods during the 5-year term of the securities and the payment at maturity may be less than 60% of the stated principal amount of the securities and may be zero.

Scenario 1: The securities are redeemed prior to maturity

This scenario assumes that, prior to early redemption, each underlying index closes at or above its **coupon threshold level** on some quarterly observation dates, but one or more underlying indices close below the respective coupon threshold level(s) on the others. Investors receive the contingent monthly coupon, corresponding to a return of 5.50% to 7.50% *per annum* (to be determined on the pricing date), for the monthly periods for which each index closing value is at or above the respective coupon threshold level on the related observation date, but not for the monthly periods for which any index closing value is below the respective coupon threshold level on the related observation date.

Starting after one year, when **each** underlying index closes at or above its respective **initial index value** on a quarterly redemption determination date, the securities will be automatically redeemed for the stated principal amount *plus* the contingent monthly coupon with respect to the related observation date.

Scenario 2: The securities are not

This scenario assumes that each underlying index closes at or above the respective coupon threshold level on some quarterly observation dates, but one or more underlying indices close

redeemed prior to maturity, and investors receive principal back at maturity

below the respective coupon threshold level(s) on the others, and each underlying index closes below its respective initial index value on every quarterly redemption determination date. Consequently, the securities are not automatically redeemed, and investors receive the contingent monthly coupon, corresponding to a return of 5.50% to 7.50% *per annum* (to be determined on the pricing date), for the monthly periods for which each index closing value is at or above the respective coupon threshold level on the related observation date, but not for the monthly periods for which any index closing value is below the respective coupon threshold level on the related observation date.

On the final observation date, each underlying index closes at or above its downside threshold level. At maturity, investors will receive the stated principal amount and, if the final index value of **each** underlying index is also **greater than or equal to** its respective **coupon threshold level**, the contingent monthly coupon with respect to the final observation date.

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Principal at Risk Securities

Scenario 3: The securities are not redeemed prior to maturity, and investors suffer a substantial loss of principal at maturity

This scenario assumes that each underlying index closes at or above its respective coupon threshold level on some quarterly observation dates, but one or more underlying indices close below the respective coupon threshold level(s) on the others, and each underlying index closes below its respective initial index value on every quarterly redemption determination date. Consequently, the securities are not automatically redeemed, and investors receive the contingent monthly coupon, corresponding to a return of 5.50% to 7.50% *per annum* (to be determined on the pricing date), for the monthly periods for which each index closing value is at or above the respective coupon threshold level on the related observation date, but not for the monthly periods for which any index closing value is below the respective coupon threshold level on the related observation date.

On the final observation date, one or more underlying indices close below the respective downside threshold level(s). At maturity, investors will receive an amount equal to the stated principal amount multiplied by the index performance factor of the worst performing underlying index. Under these circumstances, the payment at maturity will be less than 60% of the stated principal amount and could be zero. No coupon will be paid at maturity in this scenario.

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Principal at Risk Securities

How the Securities Work

The following diagrams illustrate the potential outcomes for the securities depending on (1) the index closing values on each quarterly observation date, (2) the index closing values on each quarterly redemption determination date (starting after one year) and (3) the final index values. Please see “Hypothetical Examples” beginning on page 10 for illustration of hypothetical payouts on the securities.

Diagram #1: Contingent Monthly Coupons (Beginning on the First Coupon Payment Date until Early Redemption or Maturity)

Diagram #2: Automatic Early Redemption (Starting after one year)

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Principal at Risk Securities

Diagram #3: Payment at Maturity if No Automatic Early Redemption Occurs

For more information about the payout upon an early redemption or at maturity in different hypothetical scenarios, see “Hypothetical Examples” starting on page 10.

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Principal at Risk Securities

Hypothetical Examples

The following hypothetical examples illustrate how to determine whether a contingent monthly coupon is paid with respect to an observation date and how to calculate the payment at maturity, if any, if the securities have not been automatically redeemed early. The following examples are for illustrative purposes only. Whether you receive a contingent monthly coupon will be determined by reference to the index closing value of each underlying index on each quarterly observation date, and the amount you will receive at maturity, if any, will be determined by reference to the final index value of each underlying index on the final observation date. The actual initial index value, coupon threshold level and downside threshold level for each underlying index will be determined on the pricing date. All payments on the securities, if any, are subject to our credit risk. The numbers in the hypothetical examples below may have been rounded for the ease of analysis. The below examples are based on the following terms:

Hypothetical Contingent Monthly Coupon: *A contingent monthly coupon will be paid on the securities on each coupon payment date **but only if** the index closing value of **each** underlying index is at or above its respective **coupon threshold level** on the related observation date. If payable, the contingent monthly coupon will be an amount in cash per stated principal amount corresponding to a return of 6.50% *per annum* for each interest payment period for each applicable observation date. These hypothetical examples reflect a hypothetical contingent monthly coupon rate of 6.50% *per annum* (corresponding to approximately \$5.417 per month per security, the midpoint of the specified range*).*

Automatic Early Redemption (starting after one year): *If the index closing value of **each** underlying index is greater than or equal to its respective **initial index value** on any of the sixteen quarterly redemption determination dates, the securities will be automatically redeemed for an early redemption payment equal to the stated principal amount *plus* the contingent monthly coupon with respect to the related observation date.*

Payment at Maturity (if the securities have not been automatically redeemed early): *If the final index value of **each** underlying index is **greater than or equal to** its respective downside threshold level, investors will receive the stated principal amount and, if the final index value of **each** underlying index is also **greater than or equal to** its respective **coupon threshold level**, the contingent monthly coupon with respect to the final observation date.*

*If the final index value of **any** underlying index is **less than** its respective downside threshold level, investors will receive a payment at maturity equal to the stated principal amount *multiplied by* the index performance factor of the worst performing underlying*

index. Under these circumstances, the payment at maturity will be less than 60% of the stated principal amount of the securities and could be zero.

Stated Principal Amount:

\$1,000

With respect to the RTY Index: 1,200

Hypothetical Initial Index Value:

With respect to the NDX Index: 7,600

With respect to the INDU Index: 26,000

With respect to the RTY Index: 840, which is 70% of the hypothetical initial index value for such index

Hypothetical Coupon Threshold Level:

With respect to the NDX Index: 5,320, which is 70% of the hypothetical initial index value for such index

With respect to the INDU Index: 18,200, which is 70% of the hypothetical initial index value for such index

With respect to the RTY Index: 720, which is 60% of the hypothetical initial index value for such index

Hypothetical Downside Threshold level:

With respect to the NDX Index: 4,560, which is 60% of the hypothetical initial index value for such index

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With respect to the INDU Index: 15,600, which is 60% of the hypothetical initial index value for such index
 * The actual contingent monthly coupon will be an amount determined by the calculation agent based on the actual contingent monthly coupon rate and the number of days in the applicable payment period, calculated on a 30/360 basis. The hypothetical contingent monthly coupon of \$5.417 is used in these examples for ease of analysis.

How to determine whether a contingent monthly coupon is payable with respect to an observation date:

	Index Closing Value			Contingent Monthly Coupon
	RTY Index	NDX Index	INDU Index	
Hypothetical Observation Date 1	1,750 (at or above the coupon threshold level)	8,800 (at or above the coupon threshold level)	21,000 (at or above the coupon threshold level)	\$5.417
Hypothetical Observation Date 2	800 (below the coupon threshold level)	6,100 (at or above the coupon threshold level)	22,500 (at or above the coupon threshold level)	\$0
Hypothetical Observation Date 3	1,400 (at or above the coupon threshold level)	3,900 (below the coupon threshold level)	17,000 (below the coupon threshold level)	\$0
Hypothetical Observation Date 4	700 (below the coupon threshold level)	2,800 (below the coupon threshold level)	17,000 (below the coupon threshold level)	\$0

On hypothetical observation date 1, each underlying index closes at or above its respective coupon threshold level. Therefore, a contingent monthly coupon of \$5.417 is paid on the relevant coupon payment date.

On each of hypothetical observation dates 2 and 3, at least one underlying index closes at or above its respective coupon threshold level, but one or both of the other underlying indices close below their respective coupon threshold levels. Therefore, no contingent monthly coupon is paid on the relevant coupon payment date.

On hypothetical observation date 4, each underlying index closes below its respective coupon threshold level, and, accordingly, no contingent monthly coupon is paid on the relevant coupon payment date.

If the index closing value of any underlying index is less than its respective coupon threshold level on each observation date, you will not receive any contingent monthly coupons for the entire 5-year term of the securities.

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How to calculate the payment at maturity (if the securities have not been automatically redeemed):

Starting after one year, if the index closing value of each underlying index is greater than or equal to its initial index value on any of the sixteen quarterly redemption determination dates, the securities will be automatically redeemed for an early redemption payment equal to the stated principal amount for each security you hold *plus* the contingent monthly coupon with respect to the related observation date.

The examples below illustrate how to calculate the payment at maturity if the securities have not been automatically redeemed prior to maturity.

	Final Index Value			Payment at Maturity
	RTY Index	NDX Index	INDU Index	
Example 1:	540 (below the downside threshold level)	3,600 (below the downside threshold level)	16,500 (at or above the downside threshold level)	\$1,000 x index performance factor of the worst performing underlying index = $\$1,000 \times (540 / 1,200) = \450
Example 2:	1,200 (at or above the downside threshold level)	4,600 (at or above the downside threshold level)	10,400 (below the downside threshold level)	$\$1,000 \times (10,400 / 26,000) = \400
Example 3:	540 (below the downside threshold level)	3,040 (below the downside threshold level)	7,800 (below the downside threshold level)	$\$1,000 \times (7,800 / 26,000) = \300
Example 4:	360 (below the downside threshold level)	3,040 (below the downside threshold level)	10,400 (below the downside threshold level)	$\$1,000 \times (360 / 1,200) = \300
Example 5:	1,300 (at or above the downside threshold level and the coupon threshold level)	8,000 (at or above the downside threshold level and the coupon threshold level)	30,000 (at or above the downside threshold level and the coupon threshold level)	The stated principal amount + the contingent monthly coupon with respect to the final observation date.

For more information, please see above under “How to determine whether a contingent monthly coupon is payable with respect to an observation date.”

In examples 1 and 2, the final index value(s) of one or two of the underlying indices are at or above the respective downside threshold level(s), but the final index value(s) of one or both of the other underlying indices are below the respective downside threshold level(s). Therefore, investors are exposed to the downside performance of the worst performing underlying index at maturity and receive at maturity an amount equal to the stated principal amount *multiplied by* the index performance factor of the worst performing underlying index. Moreover, investors do not receive any contingent monthly coupon for the final monthly period.

Similarly, in examples 3 and 4, the final index value of each underlying index is below its respective downside threshold level, and investors receive at maturity an amount equal to the stated principal amount *times* the index performance factor of the worst performing underlying index. In example 3, the RTY Index has declined 55% from its initial index value to its final index value, the NDX Index has declined 60% from its initial index value to its final index value and the INDU Index has declined 70% from its initial index value to its final index value. Therefore, the payment at maturity equals the stated principal amount *multiplied by* the index performance factor of the INDU Index, which is the worst performing underlying index in this example. In example 4, the RTY Index has declined 70% from its initial index value to its final index value, the NDX Index has declined 60% from its initial index value to its final index value and the INDU Index has declined 60% from its initial index value. Therefore, the payment at maturity equals the stated principal amount *times* the index performance factor of the RTY Index, which is the worst performing underlying index in this example. Moreover, investors do not receive the contingent monthly coupon for the final monthly period.

In example 5, the final index value of each underlying index is at or above its respective downside threshold level and coupon threshold level. Therefore, investors receive at maturity the stated principal amount of the securities *plus* the contingent monthly coupon with respect to the final observation date. However, investors do not participate in any appreciation of the underlying indices.

If the final index value of ANY underlying index is below its respective downside threshold level, you will be exposed to the downside performance of the worst performing underlying index at maturity, and your payment at maturity will be less than \$600 per security and could be zero.

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Risk Factors

The following is a list of certain key risk factors for investors in the securities. For further discussion of these and other risks, you should read the section entitled "Risk Factors" in the accompanying product supplement, index supplement and prospectus. We also urge you to consult with your investment, legal, tax, accounting and other advisers in connection with your investment in the securities.

The securities do not guarantee the return of any principal. The terms of the securities differ from those of ordinary debt securities in that they do not guarantee the repayment of any principal. If the securities have not been automatically redeemed prior to maturity, and if the final index value of **any** underlying index is less than its downside threshold level of 60% of its initial index value, you will be exposed to the decline in the index closing value of the worst performing underlying index, as compared to its initial index value, on a 1-to-1 basis, and you will receive for each security that you hold at maturity an amount equal to the stated principal amount *multiplied by* the index performance factor of the worst performing underlying index. **In this case, the payment at maturity will be less than 60% of the stated principal amount and could be zero.**

The securities do not provide for the regular payment of interest. The terms of the securities differ from those of ordinary debt securities in that they do not provide for the regular payment of interest. Instead, the securities will pay a contingent monthly coupon **but only if** the index closing value of **each** underlying index is **at or above** its respective **coupon threshold level** on the related observation date. If the index closing value of **any** underlying index is lower than its **coupon threshold level** on the relevant observation date for any interest period, we will pay no coupon on the applicable coupon payment date. It is possible that the index closing value of any underlying index will be less than its respective **coupon threshold level** for extended periods of time or even throughout the entire term of the securities so that you will receive few or no contingent monthly coupons. If you do not earn sufficient contingent monthly coupons over the term of the securities, the overall return on the securities may be less than the amount that would be paid on a conventional debt security of ours of comparable maturity.

§ You are exposed to the price risk of each underlying index, with respect to both the contingent monthly coupons, if any, and the payment at maturity, if any. Your return on the securities is not linked to a basket consisting of the underlying indices. Rather, it will be contingent upon the independent performance of each underlying index. Unlike an instrument with a return linked to a basket of underlying assets, in which risk is mitigated and diversified among all the components of the basket, you will be exposed to the risks related to each underlying index. Poor performance by **any** underlying index over the term of the securities will negatively affect your return and will not be offset or mitigated by any positive performance by the other underlying indices. To receive **any** contingent monthly coupons, **each** underlying index must close at or above its respective coupon threshold level on the applicable observation date. In addition, if the securities have not been automatically redeemed

early and **any** underlying index has declined to below its respective downside threshold level as of the final observation date, you will be **fully exposed** to the decline in the worst performing underlying index over the term of the securities on a 1-to-1 basis, even if one or both of the other underlying indices have appreciated or have not declined as much. Under this scenario, the value of any such payment will be less than 60% of the stated principal amount and could be zero. Accordingly, your investment is subject to the price risk of each underlying index.

Because the securities are linked to the performance of the worst performing underlying index, you are exposed to greater risks of receiving no contingent monthly coupons and sustaining a significant loss on your investment than if the securities were linked to just one index. The risk that you will not receive any contingent monthly coupons, or that you will suffer a significant loss on your investment, is greater if you invest in the securities as opposed to substantially similar securities that are linked to the performance of just one underlying § index. With three underlying indices, it is more likely that any underlying index will close below its coupon threshold level on any observation date, and below its downside threshold level on the final observation date, than if the securities were linked to only one underlying index. Therefore, it is more likely that you will not receive any contingent monthly coupons and that you will suffer a significant loss on your investment. In addition, because each underlying index must close above its initial index value on a quarterly redemption determination date in order for the securities to be called prior to

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maturity, the securities are less likely to be called on any early redemption date than if the securities were linked to just one underlying index.

The contingent monthly coupon, if any, is based on the value of each underlying index on only the related quarterly observation date at the end of the related interest period. Whether the contingent monthly coupon will be paid on any coupon payment date will be determined at the end of the relevant interest period based on the index closing value of each underlying index on the relevant quarterly observation date. As a result, you will not know whether you will receive the contingent monthly coupon on any coupon payment date until near the end of the § relevant interest period. Moreover, because the contingent monthly coupon is based solely on the value of each underlying index on quarterly observation dates, if the index closing value of any underlying index on any observation date is below the coupon threshold level for such index, you will not receive the contingent monthly coupon for the related interest period, even if the level of such underlying index was at or above its respective coupon threshold level on other days during that interest period, and even if the index closing value(s) of one or both of the other underlying indices are at or above their respective coupon threshold level(s).

Investors will not participate in any appreciation in any underlying index. Investors will not participate in any § appreciation in any underlying index from the initial index value for such index, and the return on the securities will be limited to the contingent monthly coupons, if any, that are paid with respect to each observation date on which the index closing value of each underlying index is greater than or equal to its respective coupon threshold level, if any.

The market price will be influenced by many unpredictable factors. Several factors, many of which are beyond our control, will influence the value of the securities in the secondary market and the price at which MS & Co. may be willing to purchase or sell the securities in the secondary market. We expect that generally the level of interest § rates available in the market and the value of each underlying index on any day, including in relation to its respective coupon threshold level, downside threshold level and initial index value, will affect the value of the securities more than any other factors. Other factors that may influence the value of the securities include:

- o the volatility (frequency and magnitude of changes in value) of the underlying indices,

o whether the index closing value of any underlying index has been below its respective coupon threshold level on any observation date,

geopolitical conditions and economic, financial, political, regulatory or judicial events that affect the component ostocks of the underlying indices or securities markets generally and which may affect the value of each underlying index,

- o dividend rates on the securities underlying the underlying indices,
 - o the time remaining until the securities mature,
 - o interest and yield rates in the market,
 - o the availability of comparable instruments,
- o the composition of the underlying indices and changes in the constituent stocks of such indices, and
 - o any actual or anticipated changes in our credit ratings or credit spreads.

Generally, the longer the time remaining to maturity, the more the market price of the securities will be affected by the other factors described above. Some or all of these factors will influence the price that you will receive if you sell your securities prior to maturity. In particular, if any underlying index has closed near or below its coupon threshold level, and especially if any underlying index has closed near or below its downside threshold level, the market value of the securities is expected to decrease substantially, and you may have to sell your securities at a substantial discount from the stated principal amount of \$1,000 per security.

You cannot predict the future performance of any underlying index based on its historical performance. The value of any underlying index may decrease and be below the respective coupon threshold level for such index on each observation date so that you will receive no return on your investment, and any or all of the underlying indices may

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close below the respective downside threshold level(s) on the final observation date so that you will lose more than 40% or all of your initial investment in the securities. There can be no assurance that the index closing value of each underlying index will be at or above the respective coupon threshold level on any observation date so that you will receive a coupon payment on the securities for the applicable interest period, or that it will be at or above its respective downside threshold level on the final observation date so that you do not suffer a significant loss on your initial investment in the securities. See “Russell 2000[®] Index Overview,” “NASDAQ-100 Index[®] Overview” and “Dow Jones Industrial AverageSM Overview” below.

The securities are subject to our credit risk, and any actual or anticipated changes to our credit ratings or credit spreads may adversely affect the market value of the securities. You are dependent on our ability to pay all amounts due on the securities at maturity, upon early redemption or on any coupon payment date, and therefore you are subject to our credit risk. The securities are not guaranteed by any other entity. If we default on our obligations under the securities, your investment would be at risk and you could lose some or all of your investment. As a result, the market value of the securities prior to maturity will be affected by changes in the market’s view of our creditworthiness. Any actual or anticipated decline in our credit ratings or increase in the credit spreads charged by the market for taking our credit risk is likely to adversely affect the market value of the securities.

As a finance subsidiary, MSFL has no independent operations and will have no independent assets. As a finance subsidiary, MSFL has no independent operations beyond the issuance and administration of its securities and will have no independent assets available for distributions to holders of MSFL securities if they make claims in respect of such securities in a bankruptcy, resolution or similar proceeding. Accordingly, any recoveries by such holders will be limited to those available under the related guarantee by Morgan Stanley and that guarantee will rank *pari passu* with all other unsecured, unsubordinated obligations of Morgan Stanley. Holders will have recourse only to a single claim against Morgan Stanley and its assets under the guarantee. Holders of securities issued by MSFL should accordingly assume that in any such proceedings they would not have any priority over and should be treated *pari passu* with the claims of other unsecured, unsubordinated creditors of Morgan Stanley, including holders of Morgan Stanley-issued securities.

§ The securities are linked to the Russell 2000[®] Index and are subject to risks associated with small-capitalization companies. As the Russell 2000[®] Index is one of the underlying indices, and the Russell 2000[®] Index consists of stocks issued by companies with relatively small market capitalization, the securities are linked to the value of small-capitalization companies. These companies often have greater stock price volatility, lower trading volume and less liquidity than large-capitalization companies and therefore the Russell 2000[®] Index may be more volatile than indices that consist of stocks issued by large-capitalization companies. Stock prices of small-capitalization companies are also more vulnerable than those of large-capitalization companies to adverse business and economic developments, and the stocks of small-capitalization companies may be thinly traded. In addition, small capitalization companies are typically less well-established and less stable financially than large-capitalization companies and may depend on a small number of key personnel, making them more vulnerable

to loss of personnel. Such companies tend to have smaller revenues, less diverse product lines, smaller shares of their product or service markets, fewer financial resources and less competitive strengths than large-capitalization companies and are more susceptible to adverse developments related to their products.

Not equivalent to investing in the underlying indices. Investing in the securities is not equivalent to investing in any underlying index or the component stocks of any underlying index. Investors in the securities will not participate § in any positive performance of any underlying index, and will not have voting rights or rights to receive dividends or other distributions or any other rights with respect to stocks that constitute any underlying index.

Reinvestment risk. The term of your investment in the securities may be shortened due to the automatic early redemption feature of the securities. If the securities are redeemed prior to maturity, you will receive no more § contingent monthly coupons and may be forced to invest in a lower interest rate environment and may not be able to reinvest at comparable terms or returns. However, under no circumstances will the securities be redeemed in the first year of the term of the securities.

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The securities will not be listed on any securities exchange and secondary trading may be limited.

Accordingly, you should be willing to hold your securities for the entire 5-year term of the securities. The securities will not be listed on any securities exchange. Therefore, there may be little or no secondary market for the securities. MS & Co. may, but is not obligated to, make a market in the securities and, if it once chooses to make a market, may cease doing so at any time. When it does make a market, it will generally do so for transactions of routine secondary market size at prices based on its estimate of the current value of the securities, taking into account its bid/offer spread, our credit spreads, market volatility, the notional size of the proposed sale, the cost of unwinding any related hedging positions, the time remaining to maturity and the likelihood that it will be able to resell the securities. Even if there is a secondary market, it may not provide enough liquidity to allow you to trade or sell the securities easily. Since other broker-dealers may not participate significantly in the secondary market for the securities, the price at which you may be able to trade your securities is likely to depend on the price, if any, at which MS & Co. is willing to transact. If, at any time, MS & Co. were to cease making a market in the securities, it is likely that there would be no secondary market for the securities. Accordingly, you should be willing to hold your securities to maturity.

The rate we are willing to pay for securities of this type, maturity and issuance size is likely to be lower than the rate implied by our secondary market credit spreads and advantageous to us. Both the lower rate and the inclusion of costs associated with issuing, selling, structuring and hedging the securities in the original issue price reduce the economic terms of the securities, cause the estimated value of the securities to be less than the original issue price and will adversely affect secondary market prices. Assuming no change in market conditions or any other relevant factors, the prices, if any, at which dealers, including MS & Co., may be willing to purchase the securities in secondary market transactions will likely be significantly lower than the original issue price, because secondary market prices will exclude the issuing, selling, structuring and hedging-related costs that are included in the original issue price and borne by you and because the secondary market prices will reflect our secondary market credit spreads and the bid-offer spread that any dealer would charge in a secondary market transaction of this type as well as other factors.

The inclusion of the costs of issuing, selling, structuring and hedging the securities in the original issue price and the lower rate we are willing to pay as issuer make the economic terms of the securities less favorable to you than they otherwise would be.

However, because the costs associated with issuing, selling, structuring and hedging the securities are not fully deducted upon issuance, for a period of up to 6 months following the issue date, to the extent that MS & Co. may buy or sell the securities in the secondary market, absent changes in market conditions, including those related to the underlying indices, and to our secondary market credit spreads, it would do so based on values higher than the estimated value, and we expect that those higher values will also be reflected in your brokerage account statements.

The estimated value of the securities is determined by reference to our pricing and valuation models, which may differ from those of other dealers and is not a maximum or minimum secondary market price. These pricing and valuation models are proprietary and rely in part on subjective views of certain market inputs and certain assumptions about future events, which may prove to be incorrect. As a result, because there is no market-standard way to value these types of securities, our models may yield a higher estimated value of the securities than those § generated by others, including other dealers in the market, if they attempted to value the securities. In addition, the estimated value on the pricing date does not represent a minimum or maximum price at which dealers, including MS & Co., would be willing to purchase your notes in the secondary market (if any exists) at any time. The value of your securities at any time after the date of this document will vary based on many factors that cannot be predicted with accuracy, including our creditworthiness and changes in market conditions. See also “The market price will be influenced by many unpredictable factors” above.

Hedging and trading activity by our affiliates could potentially affect the value of the securities. One or more of our affiliates and/or third-party dealers expect to carry out hedging activities related to the securities (and to other instruments linked to the underlying indices or their component stocks), including trading in the stocks that § constitute the underlying indices as well as in other instruments related to the underlying indices. As a result, these entities may be unwinding or adjusting hedge positions during the term of the securities, and the hedging strategy may involve greater

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and more frequent dynamic adjustments to the hedge as the final observation date approaches. Some of our affiliates also trade the stocks that constitute the underlying indices and other financial instruments related to the underlying indices on a regular basis as part of their general broker-dealer and other businesses. Any of these hedging or trading activities on or prior to the pricing date could potentially increase the initial index value of an underlying index, and, therefore, could increase (i) the level at or above which such underlying index must close on any redemption determination date so that the securities are redeemed prior to maturity for the early redemption payment (depending also on the performance of the other underlying indices), (ii) the level at or above which such underlying index must close on each observation date in order for you to earn a contingent monthly coupon (depending also on the performance of the other underlying indices) and (iii) the level at or above which such underlying index must close on the final observation date so that you are not exposed to the negative performance of the worst performing underlying index at maturity (depending also on the performance of the other underlying indices). Additionally, such hedging or trading activities during the term of the securities could affect the value of an underlying index on the redemption determination dates and the observation dates, and, accordingly, whether we redeem the securities prior to maturity, whether we pay a contingent monthly coupon on the securities and the amount of cash you receive at maturity, if any (depending also on the performance of the other underlying indices).

The calculation agent, which is a subsidiary of Morgan Stanley and an affiliate of MSFL, will make determinations with respect to the securities. As calculation agent, MS & Co. will determine the initial index value, coupon threshold level and downside threshold level for each underlying index, whether you receive a contingent monthly coupon on each coupon payment date and/or at maturity, whether the securities will be redeemed on any early redemption date and the payment at maturity, if any. Moreover, certain determinations made by MS & Co., in its capacity as calculation agent, may require it to exercise discretion and make subjective judgments, such as with respect to the occurrence or non-occurrence of market disruption events and the selection of a successor index or calculation of the index closing value in the event of a market disruption event or discontinuance of an underlying index. These potentially subjective determinations may adversely affect the payout to you at maturity, if any. For further information regarding these types of determinations, see "Description of Auto-Callable Securities—Postponement of Determination Dates," "—Alternate Exchange Calculation in Case of an Event of Default," "—Discontinuance of Any Underlying Index; Alteration of Method of Calculation" and "—Calculation Agent and Calculations" in the accompanying product supplement. In addition, MS & Co. has determined the estimated value of the securities on the pricing date.

§ Adjustments to the underlying indices could adversely affect the value of the securities. The publisher of each underlying index may add, delete or substitute the component stocks of such underlying index or make other methodological changes that could change the value of such underlying index. Any of these actions could adversely affect the value of the securities. The publisher of each underlying index may also discontinue or suspend calculation or publication of such underlying index at any time. In these circumstances, MS & Co., as the calculation agent, will have the sole discretion to substitute a successor index that is comparable to the discontinued index. MS & Co. could have an economic interest that is different than that of investors in the securities insofar as, for example, MS & Co. is permitted to consider indices that are calculated and published by MS & Co. or any of its affiliates. If MS & Co.

determines that there is no appropriate successor index on any observation date, the determination of whether a contingent monthly coupon will be payable on the securities on the applicable coupon payment date, whether the securities will be redeemed and/or the amount payable at maturity, if any, will be based on the value of such underlying index, based on the closing prices of the stocks constituting such underlying index at the time of such discontinuance, without rebalancing or substitution, computed by MS & Co. as calculation agent in accordance with the formula for calculating such underlying index last in effect prior to such discontinuance, as compared to the relevant initial index value, coupon threshold level or downside threshold level, as applicable (depending also on the performance of the other underlying indices).

The U.S. federal income tax consequences of an investment in the securities are uncertain. There is no direct § legal authority as to the proper treatment of the securities for U.S. federal income tax purposes, and, therefore, significant aspects of the tax treatment of the securities are uncertain.

Please read the discussion under “Additional Information—Tax considerations” in this document concerning the U.S. federal income tax consequences of an investment in the securities. We intend to treat a security for U.S. federal

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income tax purposes as a single financial contract that provides for a coupon that will be treated as gross income to you at the time received or accrued, in accordance with your regular method of tax accounting. Under this treatment, the ordinary income treatment of the coupon payments, in conjunction with the capital loss treatment of any loss recognized upon the sale, exchange or settlement of the securities, could result in adverse tax consequences to holders of the securities because the deductibility of capital losses is subject to limitations. We do not plan to request a ruling from the Internal Revenue Service (the “IRS”) regarding the tax treatment of the securities, and the IRS or a court may not agree with the tax treatment described herein. If the IRS were successful in asserting an alternative treatment for the securities, the timing and character of income or loss on the securities might differ significantly from the tax treatment described herein. For example, under one possible treatment, the IRS could seek to recharacterize the securities as debt instruments. In that event, U.S. Holders (as defined below) would be required to accrue into income original issue discount on the securities every year at a “comparable yield” determined at the time of issuance (as adjusted based on the difference, if any, between the actual and the projected amount of any contingent payments on the securities) and recognize all income and gain in respect of the securities as ordinary income. The risk that financial instruments providing for buffers, triggers or similar downside protection features, such as the securities, would be recharacterized as debt is greater than the risk of recharacterization for comparable financial instruments that do not have such features.

Non-U.S. Holders (as defined below) should note that we currently intend to withhold on any coupon paid to Non-U.S. Holders generally at a rate of 30%, or at a reduced rate specified by an applicable income tax treaty under an “other income” or similar provision, and will not be required to pay any additional amounts with respect to amounts withheld.

In 2007, the U.S. Treasury Department and the IRS released a notice requesting comments on the U.S. federal income tax treatment of “prepaid forward contracts” and similar instruments. While it is not clear whether the securities would be viewed as similar to the prepaid forward contracts described in the notice, it is possible that any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the securities, possibly with retroactive effect. The notice focuses on a number of issues, the most relevant of which for holders of the securities are the character and timing of income or loss and the degree, if any, to which income realized by non-U.S. investors should be subject to withholding tax. Both U.S. and Non-U.S. Holders should consult their tax advisers regarding the U.S. federal income tax consequences of an investment in the securities, including possible alternative treatments, the issues presented by this notice and any tax consequences arising under the laws of any state, local or non-U.S. taxing jurisdiction.

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Russell 2000[®] Index Overview

The Russell 2000[®] Index is an index calculated, published and disseminated by FTSE Russell, and measures the composite price performance of stocks of 2,000 companies incorporated in the U.S. and its territories. All 2,000 stocks are traded on a major U.S. exchange and are the 2,000 smallest securities that form the Russell 3000[®] Index. The Russell 3000[®] Index is composed of the 3,000 largest U.S. companies as determined by market capitalization and represents approximately 98% of the U.S. equity market. The Russell 2000[®] Index consists of the smallest 2,000 companies included in the Russell 3000[®] Index and represents a small portion of the total market capitalization of the Russell 3000[®] Index. The Russell 2000[®] Index is designed to track the performance of the small capitalization segment of the U.S. equity market. For additional information about the Russell 2000[®] Index, see the information set forth under “Russell 2000[®] Index” in the accompanying index supplement.

Information as of market close on March 26, 2019:

Bloomberg Ticker Symbol:	RTY	52 Week High (on 8/31/2018):	1,740.753
Current Index Value:	1,528.166	52 Week Low (on 12/24/2018):	1,266.925
52 Weeks Ago:	1,543.717		

The following graph sets forth the daily index closing values of the RTY Index for the period from January 1, 2014 through March 26, 2019. The related table sets forth the published high and low index closing values, as well as end-of-quarter index closing values, of the RTY Index for each quarter for the period from January 1, 2014 through March 26, 2019. The index closing value of the RTY Index on March 26, 2019 was 1,528.166. We obtained the information in the table below from Bloomberg Financial Markets, without independent verification. The RTY Index has experienced periods of high volatility, and you should not take the historical values of the RTY Index as an indication of its future performance.

RTY Index Daily Index Closing Values

January 1, 2014 to March 26, 2019

** The red line in the graph indicates the hypothetical downside threshold level, and the black line in the graph indicates the hypothetical coupon threshold level, in each case assuming the index closing value on March 26, 2019 were the initial index value.*

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Principal at Risk Securities

Russell 2000[®] Index	High	Low	Period End
2014			
First Quarter	1,208.651	1,093.594	1,173.038
Second Quarter	1,192.964	1,095.986	1,192.964
Third Quarter	1,208.150	1,101.676	1,101.676
Fourth Quarter	1,219.109	1,049.303	1,204.696
2015			
First Quarter	1,266.373	1,154.709	1,252.772
Second Quarter	1,295.799	1,215.417	1,253.947
Third Quarter	1,273.328	1,083.907	1,100.688
Fourth Quarter	1,204.159	1,097.552	1,135.889
2016			
First Quarter	1,114.028	953.715	1,114.028
Second Quarter	1,188.954	1,089.646	1,151.923
Third Quarter	1,263.438	1,139.453	1,251.646
Fourth Quarter	1,388.073	1,156.885	1,357.130
2017			
First Quarter	1,413.635	1,345.598	1,385.920
Second Quarter	1,425.985	1,345.244	1,415.359
Third Quarter	1,490.861	1,356.905	1,490.861
Fourth Quarter	1,548.926	1,464.095	1,535.511
2018			
First Quarter	1,610.706	1,463.793	1,529.427
Second Quarter	1,706.985	1,492.531	1,643.069
Third Quarter	1,740.753	1,653.132	1,696.571
Fourth Quarter	1,672.992	1,266.925	1,348.559
2019			
First Quarter (through March 26, 2019)	1,590.062	1,330.831	1,528.166

The "Russell 2000[®] Index" is a trademark of FTSE Russell. For more information, see "Russell 2000[®] Index" in the accompanying index supplement.

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Principal at Risk Securities

NASDAQ-100 Index® Overview

The NASDAQ-100 Index®, which is calculated, maintained and published by Nasdaq, Inc., is a modified capitalization-weighted index of 100 of the largest and most actively traded equity securities of non-financial companies listed on The NASDAQ Stock Market LLC. The NASDAQ-100 Index includes companies across a variety of major industry groups. At any moment in time, the value of the NASDAQ-100 Index equals the aggregate value of the then-current NASDAQ-100 Index share weights of each of the NASDAQ-100 Index component securities, which are based on the total shares outstanding of each such NASDAQ-100 Index component security, multiplied by each such security's respective last sale price on NASDAQ (which may be the official closing price published by NASDAQ), and divided by a scaling factor, which becomes the basis for the reported NASDAQ-100 Index value. For additional information about the NASDAQ-100 Index®, see the information set forth under "NASDAQ-100 Index®" in the accompanying index supplement.

Information as of market close on March 26, 2019:

Bloomberg Ticker Symbol:	NDX	52 Week High (on 8/29/2018):	7,660.180
Current Index Value:	7,351.150	52 Week Low (on 12/24/2018):	5,899.354
52 Weeks Ago:	6,753.832		

The following graph sets forth the daily index closing values of the NDX Index for in the period from January 1, 2014 through March 26, 2019. The related table sets forth the published high and low index closing values, as well as end-of-quarter index closing values, of the NDX Index for each quarter for the period from January 1, 2014 to March 26, 2019. The index closing value of the NDX Index on March 26, 2019 was 7,351.150. We obtained the information in the table and graph below from Bloomberg Financial Markets, without independent verification. The NDX Index has at times experienced periods of high volatility, and you should not take the historical values of the NDX Index as an indication of its future performance.

NDX Index Daily Index Closing Values

January 1, 2014 to March 26, 2019

** The red line in the graph indicates the hypothetical downside threshold level, and the black line in the graph indicates the hypothetical coupon threshold level, in each case assuming the index closing value on March 26, 2019 were the initial index value.*

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Principal at Risk Securities

NASDAQ-100 Index[®]	High	Low	Period End
2014			
First Quarter	3,727.185	3,440.502	3,595.736
Second Quarter	3,849.479	3,446.845	3,849.479
Third Quarter	4,103.083	3,857.938	4,049.445
Fourth Quarter	4,337.785	3,765.281	4,236.279
2015			
First Quarter	4,483.049	4,089.648	4,333.688
Second Quarter	4,548.740	4,311.257	4,396.761
Third Quarter	4,679.675	4,016.324	4,181.060
Fourth Quarter	4,719.053	4,192.963	4,593.271
2016			
First Quarter	4,497.857	3,947.804	4,483.655
Second Quarter	4,565.421	4,201.055	4,417.699
Third Quarter	4,891.363	4,410.747	4,875.697
Fourth Quarter	4,965.808	4,660.457	4,863.620
2017			
First Quarter	5,439.742	4,911.333	5,436.232
Second Quarter	5,885.296	5,353.586	5,646.917
Third Quarter	6,004.380	5,596.956	5,979.298
Fourth Quarter	6,513.269	5,981.918	6,396.422
2018			
First Quarter	7,131.121	6,306.100	6,581.126
Second Quarter	7,280.705	6,390.837	7,040.802
Third Quarter	7,660.180	7,014.554	7,627.650
Fourth Quarter	7,645.453	5,899.354	6,329.964
2019			
First Quarter (through March 26, 2019)	7,493.270	6,147.128	7,351.150

“Nasdaq[®],” “NASDAQ-100[®]” and “NASDAQ-100 Index[®]” are trademarks of Nasdaq, Inc. For more information, see “NASDAQ-100 Index[®]” in the accompanying index supplement.

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Principal at Risk Securities

Dow Jones Industrial AverageSM Overview

The Dow Jones Industrial AverageSM is a price-weighted index composed of 30 common stocks that is published by Dow Jones Indices LLC, the marketing name and a licensed trademark of CME Group Inc., as representative of the broad market of U.S. industry. For additional information about the Dow Jones Industrial AverageSM, see the information set forth under “Dow Jones Industrial AverageSM” in the accompanying index supplement.

Information as of market close on March 26, 2019:

Bloomberg Ticker Symbol:	INDU	52 Week High (on 10/3/2018):	26,828.39
Current Index Value:	25,657.73	52 Week Low (on 12/24/2018):	21,792.20
52 Weeks Ago:	24,202.60		

The following graph sets forth the daily index closing values of the INDU Index for the period from January 1, 2014 through March 26, 2019. The related table sets forth the published high and low index closing values, as well as end-of-quarter index closing values, of the INDU Index for each quarter for the period from January 1, 2014 through March 26, 2019. The index closing value of the INDU Index on March 26, 2019 was 25,657.73. We obtained the information in the table and graph below from Bloomberg Financial Markets, without independent verification. The INDU Index has experienced periods of high volatility, and you should not take the historical values of the INDU Index as an indication of its future performance.

**INDU Index Daily Index Closing Values
January 1, 2014 to March 26, 2019**

** The red line in the graph indicates the hypothetical downside threshold level, and the black line in the graph indicates the*

hypothetical coupon threshold level, in each case assuming the index closing value on March 26, 2019 were the initial index

value.

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Principal at Risk Securities

Dow Jones Industrial AverageSM	High	Low	Period End
2014			
First Quarter	16,530.94	15,372.80	16,457.66
Second Quarter	16,947.08	16,026.75	16,826.60
Third Quarter	17,279.74	16,368.27	17,042.90
Fourth Quarter	18,053.71	16,117.24	17,823.07
2015			
First Quarter	18,288.63	17,164.95	17,776.12
Second Quarter	18,312.39	17,596.35	17,619.51
Third Quarter	18,120.25	15,666.44	16,284.70
Fourth Quarter	17,918.15	16,272.01	17,425.03
2016			
First Quarter	17,716.66	15,660.18	17,685.09
Second Quarter	18,096.27	17,140.24	17,929.99
Third Quarter	18,636.05	17,840.62	18,308.15
Fourth Quarter	19,974.62	17,888.28	19,762.60
2017			
First Quarter	21,115.55	19,732.40	20,663.22
Second Quarter	21,528.99	20,404.49	21,349.63
Third Quarter	22,412.59	21,320.04	22,405.09
Fourth Quarter	24,837.51	22,557.60	24,719.22
2018			
First Quarter	26,616.71	23,533.20	24,103.11
Second Quarter	25,322.31	23,644.19	24,271.41
Third Quarter	26,743.50	24,174.82	26,458.31
Fourth Quarter	26,828.39	21,792.20	23,327.46
2019			
First Quarter (through March 26, 2019)	26,091.95	22,686.22	25,657.73

“Dow Jones,” “Dow Jones Industrial Average,” “Dow Jones Indexes” and “DJIA” are service marks of Dow Jones Trademark Holdings LLC. See “Dow Jones Industrial AverageSM” in the accompanying index supplement.

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Additional Terms of the Securities

Please read this information in conjunction with the summary terms on the front cover of this document.

Additional Terms:

If the terms described herein are inconsistent with those described in the accompanying product supplement, index supplement or prospectus, the terms described herein shall control.

With respect to the RTY Index, FTSE Russell, or any successor thereof.

Underlying index publishers:

With respect to the NDX Index, Nasdaq Inc., or any successor thereof.

With respect to the INDU Index, S&P Dow Jones Indices LLC, or any successor thereof.

Interest period:

The monthly period from and including the original issue date (in the case of the first interest period) or the previous scheduled coupon payment date, as applicable, to but excluding the following scheduled coupon payment date, with no adjustment for any postponement thereof.

Record date:

The record date for each coupon payment date shall be the date one business day prior to such scheduled coupon payment date; *provided*, however, that any coupon payable at maturity (or upon early redemption) shall be payable to the person to whom the payment at maturity or early redemption payment, as the case may be, shall be payable.

Threshold level:

The accompanying product supplement refers to the threshold level as the “trigger level.”

Day count convention:

Interest will be computed on the basis of a 360-day year of twelve 30-day months.

Postponement of coupon payment dates (including the maturity date) and early redemption dates:

If any observation date or redemption determination date is postponed due to a non-index business day or certain market disruption events so that it falls less than two business days prior to the relevant scheduled coupon payment date (including the maturity date) or early redemption date, as applicable, the coupon payment date (or the maturity date) or the early redemption date will be postponed to the second business day following that observation date or redemption determination date as postponed, and no adjustment will be made to any coupon payment or early redemption payment made on that postponed date.

Index closing value:

With respect to the RTY Index, the index closing value on any index business day shall

be determined by the calculation agent and shall equal the closing value of such underlying index or any successor index reported by Bloomberg Financial Services, or any successor reporting service the calculation agent may select, on such index business day. In certain circumstances, the index closing value for the RTY Index will be based on the alternate calculation of such underlying index as described under “Discontinuance of Any Underlying Index; Alteration of Method of Calculation” in the accompanying product supplement. The closing value of the RTY Index reported by Bloomberg Financial Services may be lower or higher than the official closing value of the RTY Index published by the underlying index publisher for such underlying index.

With respect to each of the NDX Index and the INDU Index, the index closing value on any index business day shall be determined by the calculation agent and shall equal the official closing value of such underlying index, or any successor index as defined under “Discontinuance of Any Underlying Index; Alteration of Method of Calculation” in the accompanying product supplement, published at the regular official weekday close of trading on such index business day by the underlying index publisher for such underlying index, as determined by the calculation agent. In certain circumstances, the index closing value for the NDX Index or the INDU Index will be based on the alternate calculation of such underlying index as described under “Discontinuance of Any Underlying Index; Alteration of Method of Calculation” in the accompanying product supplement.

Denominations: \$1,000 per security and integral multiples thereof

Trustee: The Bank of New York Mellon

Calculation agent: MS & Co.

Issuer notices to registered security holders, the trustee and the depositary:

In the event that the maturity date is postponed due to postponement of the final observation date, the issuer shall give notice of such postponement and, once it has been determined, of the date to which the maturity date has been rescheduled (i) to each registered holder of the securities by mailing notice of such postponement by first class mail, postage prepaid, to such registered holder’s last address as it shall appear upon the registry books, (ii) to the trustee by facsimile, confirmed by mailing such notice to the trustee by first class mail, postage prepaid, at its New York office and (iii) to The Depository Trust Company (the “depository”) by

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telephone or facsimile confirmed by mailing such notice to the depository by first class mail, postage prepaid. Any notice that is mailed to a registered holder of the securities in the manner herein provided shall be conclusively presumed to have been duly given to such registered holder, whether or not such registered holder receives the notice. The issuer shall give such notice as promptly as possible, and in no case later than (i) with respect to notice of postponement of the maturity date, the business day immediately preceding the scheduled maturity date and (ii) with respect to notice of the date to which the maturity date has been rescheduled, the business day immediately following the final observation date as postponed.

In the event that the securities are subject to early redemption, the issuer shall, (i) on the business day following the applicable redemption determination date, give notice of the early redemption and the early redemption payment, including specifying the payment date of the amount due upon the early redemption, (x) to each registered holder of the securities by mailing notice of such early redemption by first class mail, postage prepaid, to such registered holder's last address as it shall appear upon the registry books, (y) to the trustee by facsimile confirmed by mailing such notice to the trustee by first class mail, postage prepaid, at its New York office and (z) to the depository by telephone or facsimile confirmed by mailing such notice to the depository by first class mail, postage prepaid, and (ii) on or prior to the early redemption date, deliver the aggregate cash amount due with respect to the securities to the trustee for delivery to the depository, as holder of the securities. Any notice that is mailed to a registered holder of the securities in the manner herein provided shall be conclusively presumed to have been duly given to such registered holder, whether or not such registered holder receives the notice. This notice shall be given by the issuer or, at the issuer's request, by the trustee in the name and at the expense of the issuer, with any such request to be accompanied by a copy of the notice to be given.

The issuer shall, or shall cause the calculation agent to, (i) provide written notice to the trustee, on which notice the trustee may conclusively rely, and to the depository of the amount of cash to be delivered as contingent monthly coupon, if any, with respect to each security on or prior to 10:30 a.m. (New York City time) on the business day preceding each coupon payment date, and (ii) deliver the aggregate cash amount due, if any, with respect to the contingent monthly coupon to the trustee for delivery to the depository, as holder of the securities, on the applicable coupon payment date.

The issuer shall, or shall cause the calculation agent to, (i) provide written notice to the trustee, on which notice the trustee may conclusively rely, and to the depository of the amount of cash to be delivered with respect to each stated principal amount of the securities, on or prior to 10:30 a.m. (New York City time) on the business day preceding the maturity date, and (ii) deliver the aggregate cash amount due with respect to the securities to the trustee for delivery to the depository, as holder of the securities, on the maturity date.

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Additional Information About the Securities

Additional Information:

Minimum ticketing size: \$1,000 / 1 security

Tax considerations: **Prospective investors should note that the discussion under the section called “United States Federal Taxation” in the accompanying product supplement does not apply to the securities issued under this document and is superseded by the following discussion.**

The following is a general discussion of the material U.S. federal income tax consequences and certain estate tax consequences of the ownership and disposition of the securities. This discussion applies only to investors in the securities who:

- purchase the securities in the original offering; and
- hold the securities as capital assets within the meaning of Section 1221 of the Internal Revenue Code of 1986, as amended (the “Code”).

This discussion does not describe all of the tax consequences that may be relevant to a holder in light of the holder’s particular circumstances or to holders subject to special rules, such as:

- certain financial institutions;
- insurance companies;
- certain dealers and traders in securities or commodities;

- investors holding the securities as part of a “straddle,” wash sale, conversion transaction, integrated transaction or constructive sale transaction;
- U.S. Holders (as defined below) whose functional currency is not the U.S. dollar;
- partnerships or other entities classified as partnerships for U.S. federal income tax purposes;
- regulated investment companies;
- real estate investment trusts; or
- tax-exempt entities, including “individual retirement accounts” or “Roth IRAs” as defined in Section 408 or 408A of the Code, respectively.

If an entity that is classified as a partnership for U.S. federal income tax purposes holds the securities, the U.S. federal income tax treatment of a partner will generally depend on the status of the partner and the activities of the partnership. If you are a partnership holding the securities or a partner in such a partnership, you should consult your tax adviser as to the particular U.S. federal tax consequences of holding and disposing of the securities to you.

As the law applicable to the U.S. federal income taxation of instruments such as the securities is technical and complex, the discussion below necessarily represents only a general summary. The effect of any applicable state, local or non-U.S. tax laws is not discussed, nor are any alternative minimum tax consequences or consequences resulting from the Medicare tax on investment income. Moreover, the discussion below does not address the consequences to taxpayers subject to special tax accounting rules under Section 451(b) of the Code.

This discussion is based on the Code, administrative pronouncements, judicial decisions and final, temporary and proposed Treasury regulations, all as of the date hereof, changes to any of which subsequent to the date hereof may affect the tax consequences described herein. Persons considering the purchase of the securities should consult their tax advisers with regard to the application of the U.S. federal income tax laws to their particular situations as well as any tax consequences arising under the laws of any state, local or non-U.S. taxing jurisdiction.

General

Due to the absence of statutory, judicial or administrative authorities that directly address the

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Principal at Risk Securities

treatment of the securities or instruments that are similar to the securities for U.S. federal income tax purposes, no assurance can be given that the IRS or a court will agree with the tax treatment described herein. We intend to treat a security for U.S. federal income tax purposes as a single financial contract that provides for a coupon that will be treated as gross income to you at the time received or accrued in accordance with your regular method of tax accounting. In the opinion of our counsel, Davis Polk & Wardwell LLP, this treatment of the securities is reasonable under current law; however, our counsel has advised us that it is unable to conclude affirmatively that this treatment is more likely than not to be upheld, and that alternative treatments are possible. Moreover, our counsel's opinion is based on market conditions as of the date of this preliminary pricing supplement and is subject to confirmation on the pricing date.

You should consult your tax adviser regarding all aspects of the U.S. federal tax consequences of an investment in the securities (including possible alternative treatments of the securities). Unless otherwise stated, the following discussion is based on the treatment of each security as described in the previous paragraph.

Tax Consequences to U.S. Holders

This section applies to you only if you are a U.S. Holder. As used herein, the term "U.S. Holder" means a beneficial owner of a security that is, for U.S. federal income tax purposes:

- a citizen or individual resident of the United States;

- a corporation, or other entity taxable as a corporation, created or organized in or under the laws of the United States, any state thereof or the District of Columbia; or

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

Tax Treatment of the Securities

Assuming the treatment of the securities as set forth above is respected, the following U.S. federal income tax consequences should result.

Tax Basis. A U.S. Holder's tax basis in the securities should equal the amount paid by the U.S. Holder to acquire the securities.

Tax Treatment of Coupon Payments. Any coupon payment on the securities should be taxable as ordinary income to a U.S. Holder at the time received or accrued, in accordance with the U.S. Holder's regular method of accounting for U.S. federal income tax purposes.

Sale, Exchange or Settlement of the Securities. Upon a sale, exchange or settlement of the securities, a U.S. Holder should recognize gain or loss equal to the difference between the amount realized on the sale, exchange or settlement and the U.S. Holder's tax basis in the securities sold, exchanged or settled. For this purpose, the amount realized does not include any coupon paid at settlement and may not include sale proceeds attributable to an accrued coupon, which may be treated as a coupon payment. Any such gain or loss recognized should be long-term capital gain or loss if the U.S. Holder has held the securities for more than one year at the time of the sale, exchange or settlement, and should be short-term capital gain or loss otherwise. The ordinary income treatment of the coupon payments, in conjunction with the capital loss treatment of any loss recognized upon the sale, exchange or settlement of the securities, could result in adverse tax consequences to holders of the securities because the deductibility of capital losses is subject to limitations.

Possible Alternative Tax Treatments of an Investment in the Securities

Due to the absence of authorities that directly address the proper tax treatment of the securities, no assurance can be given that the IRS will accept, or that a court will uphold, the treatment described above. In particular, the IRS could seek to analyze the U.S. federal income tax consequences of owning the securities under Treasury regulations governing

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contingent payment debt instruments (the “Contingent Debt Regulations”). If the IRS were successful in asserting that the Contingent Debt Regulations applied to the securities, the timing and character of income thereon would be significantly affected. Among other things, a U.S. Holder would be required to accrue into income original issue discount on the securities every year at a “comparable yield” determined at the time of their issuance, adjusted upward or downward to reflect the difference, if any, between the actual and the projected amount of any contingent payments on the securities. Furthermore, any gain realized by a U.S. Holder at maturity or upon a sale, exchange or other disposition of the securities would be treated as ordinary income, and any loss realized would be treated as ordinary loss to the extent of the U.S. Holder’s prior accruals of original issue discount and as capital loss thereafter. The risk that financial instruments providing for buffers, triggers or similar downside protection features, such as the securities, would be recharacterized as debt is greater than the risk of recharacterization for comparable financial instruments that do not have such features.

Other alternative federal income tax treatments of the securities are possible, which, if applied, could significantly affect the timing and character of the income or loss with respect to the securities. In 2007, the U.S. Treasury Department and the IRS released a notice requesting comments on the U.S. federal income tax treatment of “prepaid forward contracts” and similar instruments. The notice focuses on whether to require holders of “prepaid forward contracts” and similar instruments to accrue income over the term of their investment. It also asks for comments on a number of related topics, including the character of income or loss with respect to these instruments; whether short-term instruments should be subject to any such accrual regime; the relevance of factors such as the exchange-traded status of the instruments and the nature of the underlying property to which the instruments are linked; whether these instruments are or should be subject to the “constructive ownership” rule, which very generally can operate to recharacterize certain long-term capital gain as ordinary income and impose an interest charge; and appropriate transition rules and effective dates. While it is not clear whether instruments such as the securities would be viewed as similar to the prepaid forward contracts described in the notice, any Treasury regulations or other guidance promulgated after consideration of these issues could materially and adversely affect the tax consequences of an investment in the securities, possibly with retroactive effect. U.S. Holders should consult their tax advisers regarding the U.S. federal income tax consequences of an investment in the securities, including possible alternative treatments and the issues presented by this notice.

Backup Withholding and Information Reporting

Backup withholding may apply in respect of payments on the securities and the payment of proceeds from a sale, exchange or other disposition of the securities, unless a U.S. Holder provides proof of an applicable exemption or a correct taxpayer identification number and otherwise complies with applicable requirements of the backup withholding rules. The amounts withheld under the backup withholding rules are not an additional tax and may

be refunded, or credited against the U.S. Holder's U.S. federal income tax liability, provided that the required information is timely furnished to the IRS. In addition, information returns will be filed with the IRS in connection with payments on the securities and the payment of proceeds from a sale, exchange or other disposition of the securities, unless the U.S. Holder provides proof of an applicable exemption from the information reporting rules.

Tax Consequences to Non-U.S. Holders

This section applies to you only if you are a Non-U.S. Holder. As used herein, the term "Non-U.S. Holder" means a beneficial owner of a security that is for U.S. federal income tax purposes:

- an individual who is classified as a nonresident alien;
- a foreign corporation; or
- a foreign estate or trust.

The term "Non-U.S. Holder" does not include any of the following holders:

- a holder who is an individual present in the United States for 183 days or more in the taxable year of disposition and who is not otherwise a resident of the

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- United States for U.S. federal income tax purposes;
- certain former citizens or residents of the United States; or
- a holder for whom income or gain in respect of the securities is effectively connected with the conduct of a trade or business in the United States.

Such holders should consult their tax advisers regarding the U.S. federal income tax consequences of an investment in the securities.

Although significant aspects of the tax treatment of each security are uncertain, we intend to withhold on any coupon paid to a Non-U.S. Holder generally at a rate of 30% or at a reduced rate specified by an applicable income tax treaty under an “other income” or similar provision. We will not be required to pay any additional amounts with respect to amounts withheld. In order to claim an exemption from, or a reduction in, the 30% withholding tax, a Non-U.S. Holder of the securities must comply with certification requirements to establish that it is not a U.S. person and is eligible for such an exemption or reduction under an applicable tax treaty. If you are a Non-U.S. Holder, you should consult your tax adviser regarding the tax treatment of the securities, including the possibility of obtaining a refund of any withholding tax and the certification requirement described above.

Section 871(m) Withholding Tax on Dividend Equivalents

Section 871(m) of the Code and Treasury regulations promulgated thereunder (“Section 871(m)”) generally impose a 30% (or a lower applicable treaty rate) withholding tax on dividend equivalents paid or deemed paid to Non-U.S. Holders with respect to certain financial instruments linked to U.S. equities or indices that include U.S. equities (each, an “Underlying Security”). Subject to certain exceptions, Section 871(m) generally applies to securities that substantially replicate the economic performance of one or more Underlying Securities, as determined based on tests set forth in the applicable Treasury regulations (a “Specified Security”). However, pursuant to an IRS notice, Section 871(m) will not apply to securities issued before January 1, 2021 that do not have a delta of one with respect to any Underlying Security. Based on the terms of the securities and current

market conditions, we expect that the securities will not have a delta of one with respect to any Underlying Security on the pricing date. However, we will provide an updated determination in the pricing supplement. Assuming that the securities do not have a delta of one with respect to any Underlying Security, our counsel is of the opinion that the securities should not be Specified Securities and, therefore, should not be subject to Section 871(m).

Our determination is not binding on the IRS, and the IRS may disagree with this determination. Section 871(m) is complex and its application may depend on your particular circumstances, including whether you enter into other transactions with respect to an Underlying Security. If Section 871(m) withholding is required, we will not be required to pay any additional amounts with respect to the amounts so withheld. You should consult your tax adviser regarding the potential application of Section 871(m) to the securities.

U.S. Federal Estate Tax

Individual Non-U.S. Holders and entities the property of which is potentially includible in such an individual's gross estate for U.S. federal estate tax purposes (for example, a trust funded by such an individual and with respect to which the individual has retained certain interests or powers) should note that, absent an applicable treaty exemption, the securities may be treated as U.S.-situs property subject to U.S. federal estate tax. Prospective investors that are non-U.S. individuals, or are entities of the type described above, should consult their tax advisers regarding the U.S. federal estate tax consequences of an investment in the securities.

Backup Withholding and Information Reporting

Information returns will be filed with the IRS in connection with any coupon payment and may be filed with the IRS in connection with the payment at maturity on the securities and the payment of proceeds from a sale, exchange or other disposition. A Non-U.S. Holder may be subject to backup withholding in respect of amounts paid to the Non-U.S. Holder, unless such

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Non-U.S. Holder complies with certification procedures to establish that it is not a U.S. person for U.S. federal income tax purposes or otherwise establishes an exemption. The amount of any backup withholding from a payment to a Non-U.S. Holder will be allowed as a credit against the Non-U.S. Holder's U.S. federal income tax liability and may entitle the Non-U.S. Holder to a refund, provided that the required information is timely furnished to the IRS.

FATCA

Legislation commonly referred to as "FATCA" generally imposes a withholding tax of 30% on payments to certain non-U.S. entities (including financial intermediaries) with respect to certain financial instruments, unless various U.S. information reporting and due diligence requirements have been satisfied. An intergovernmental agreement between the United States and the non-U.S. entity's jurisdiction may modify these requirements. FATCA generally applies to certain financial instruments that are treated as paying U.S.-source interest or other U.S.-source "fixed or determinable annual or periodical" income ("FDAP income"). Withholding (if applicable) applies to payments of U.S.-source FDAP income and to payments of gross proceeds of the disposition (including upon retirement) of certain financial instruments treated as providing for U.S.-source interest or dividends. Under recently proposed regulations (the preamble to which specifies that taxpayers are permitted to rely on them pending finalization), no withholding will apply on payments of gross proceeds. While the treatment of the securities is unclear, you should assume that any coupon payment with respect to the securities will be subject to the FATCA rules. If withholding applies to the securities, we will not be required to pay any additional amounts with respect to amounts withheld. Both U.S. and Non-U.S. Holders should consult their tax advisers regarding the potential application of FATCA to the securities.

The discussion in the preceding paragraphs, insofar as it purports to describe provisions of U.S. federal income tax laws or legal conclusions with respect thereto, constitutes the full opinion of Davis Polk & Wardwell LLP regarding the material U.S. federal tax consequences of an investment in the securities.

Use of proceeds and hedging:

The proceeds from the sale of the securities will be used by us for general corporate purposes. We will receive, in aggregate, \$1,000 per security issued, because, when we enter into hedging transactions in order to meet our obligations under the securities, our hedging counterparty will reimburse the cost of the agent's commissions. The costs of the securities borne by you and described beginning on page 4 above comprise the agent's commissions and the cost of issuing, structuring and hedging the securities.

On or prior to the pricing date, we expect to hedge our anticipated exposure in connection with the securities by entering into hedging transactions with our affiliates and/or third-party dealers. We expect our hedging counterparties to take positions in the stocks constituting the underlying indices, in futures and/or options contracts on the underlying indices or the component stocks of the underlying indices listed on major securities markets, or positions in any other available securities or instruments that they may wish to use in connection with such hedging. Such purchase activity could potentially increase the initial index value of an underlying index, and, as a result, could increase (i) the level at or above which such underlying index must close on any redemption determination date so that the securities are redeemed prior to maturity for the early redemption payment (depending also on the performance of the other underlying indices), (ii) the level at or above which such underlying index must close on each observation date in order for you to earn a contingent monthly coupon (depending also on the performance of the other underlying indices) and (iii) the level at or above which such underlying index must close on the final observation date so that you are not exposed to the negative performance of the worst performing underlying index at maturity (depending also on the performance of the other underlying indices). These entities may be unwinding or adjusting hedge positions during the term of the securities, and the hedging strategy may involve greater and more frequent dynamic adjustments to the hedge as the final observation date approaches. Additionally, our hedging activities, as well as our other trading activities, during the term of the securities could potentially affect the value of an underlying index on the redemption determination dates and observation dates, and, accordingly, whether we redeem the securities prior to maturity, whether we pay a contingent monthly coupon on the securities and the amount of cash you receive at maturity, if any (depending also on the performance of the other underlying indices).

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Benefit plan investor considerations: Each fiduciary of a pension, profit-sharing or other employee benefit plan subject to Title I of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”) (a “Plan”), should consider the fiduciary standards of ERISA in the context of the Plan’s particular circumstances before authorizing an investment in the securities. Accordingly, among other factors, the fiduciary should consider whether the investment would satisfy the prudence and diversification requirements of ERISA and would be consistent with the documents and instruments governing the Plan.

In addition, we and certain of our affiliates, including MS & Co., may each be considered a “party in interest” within the meaning of ERISA, or a “disqualified person” within the meaning of the Internal Revenue Code of 1986, as amended (the “Code”), with respect to many Plans, as well as many individual retirement accounts and Keogh plans (such accounts and plans, together with other plans, accounts and arrangements subject to Section 4975 of the Code, also “Plans”). ERISA Section 406 and Code Section 4975 generally prohibit transactions between Plans and parties in interest or disqualified persons. Prohibited transactions within the meaning of ERISA or the Code would likely arise, for example, if the securities are acquired by or with the assets of a Plan with respect to which MS & Co. or any of its affiliates is a service provider or other party in interest, unless the securities are acquired pursuant to an exemption from the “prohibited transaction” rules. A violation of these “prohibited transaction” rules could result in an excise tax or other liabilities under ERISA and/or Section 4975 of the Code for such persons, unless exemptive relief is available under an applicable statutory or administrative exemption.

The U.S. Department of Labor has issued five prohibited transaction class exemptions (“PTCEs”) that may provide exemptive relief for direct or indirect prohibited transactions resulting from the purchase or holding of the securities. Those class exemptions are PTCE 96-23 (for certain transactions determined by in-house asset managers), PTCE 95-60 (for certain transactions involving insurance company general accounts), PTCE 91-38 (for certain transactions involving bank collective investment funds), PTCE 90-1 (for certain transactions involving insurance company separate accounts) and PTCE 84-14 (for certain transactions determined by independent qualified professional asset managers). In addition, ERISA Section 408(b)(17) and Code Section 4975(d)(20) provide an exemption for the purchase and sale of securities and the related lending transactions, *provided* that neither the issuer of the securities nor any of its affiliates has or exercises any discretionary authority or control or renders any investment advice with respect to the assets of the Plan involved in the transaction and *provided further* that the Plan pays no more, and receives no less, than “adequate consideration” in connection with the transaction (the so-called “service provider” exemption). There can be no assurance that any of these class or statutory exemptions will be available with respect to transactions involving

the securities.

Because we may be considered a party in interest with respect to many Plans, the securities may not be purchased, held or disposed of by any Plan, any entity whose underlying assets include “plan assets” by reason of any Plan’s investment in the entity (a “Plan Asset Entity”) or any person investing “plan assets” of any Plan, unless such purchase, holding or disposition is eligible for exemptive relief, including relief available under PTCEs 96-23, 95-60, 91-38, 90-1, 84-14 or the service provider exemption or such purchase, holding or disposition is otherwise not prohibited. Any purchaser, including any fiduciary purchasing on behalf of a Plan, transferee or holder of the securities will be deemed to have represented, in its corporate and its fiduciary capacity, by its purchase and holding of the securities that either (a) it is not a Plan or a Plan Asset Entity and is not purchasing such securities on behalf of or with “plan assets” of any Plan or with any assets of a governmental, non-U.S. or church plan that is subject to any federal, state, local or non-U.S. law that is substantially similar to the provisions of Section 406 of ERISA or Section 4975 of the Code (“Similar Law”) or (b) its purchase, holding and disposition of these securities will not constitute or result in a non-exempt prohibited transaction under Section 406 of ERISA or Section 4975 of the Code or violate any Similar Law.

Due to the complexity of these rules and the penalties that may be imposed upon persons involved in non-exempt prohibited transactions, it is particularly important that fiduciaries or other persons considering purchasing the securities on behalf of or with “plan assets” of any Plan consult with their counsel regarding the availability of exemptive relief.

The securities are contractual financial instruments. The financial exposure provided by the

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securities is not a substitute or proxy for, and is not intended as a substitute or proxy for, individualized investment management or advice for the benefit of any purchaser or holder of the securities. The securities have not been designed and will not be administered in a manner intended to reflect the individualized needs and objectives of any purchaser or holder of the securities.

Each purchaser or holder of any securities acknowledges and agrees that:

(i) the purchaser or holder or its fiduciary has made and shall make all investment decisions for the purchaser or holder and the purchaser or holder has not relied and shall not rely in any way upon us or our affiliates to act as a fiduciary or adviser of the purchaser or holder with respect to (A) the design and terms of the securities, (B) the purchaser or holder's investment in the securities, or (C) the exercise of or failure to exercise any rights we have under or with respect to the securities;

(ii) we and our affiliates have acted and will act solely for our own account in connection with (A) all transactions relating to the securities and (B) all hedging transactions in connection with our obligations under the securities;

(iii) any and all assets and positions relating to hedging transactions by us or our affiliates are assets and positions of those entities and are not assets and positions held for the benefit of the purchaser or holder;

(iv) our interests are adverse to the interests of the purchaser or holder; and

(v) neither we nor any of our affiliates is a fiduciary or adviser of the purchaser or holder in connection with any such assets, positions or transactions, and any information that we or any of our affiliates may provide is not intended to be impartial investment advice.

Each purchaser and holder of the securities has exclusive responsibility for ensuring that its purchase, holding and disposition of the securities do not violate the prohibited transaction rules of ERISA or the Code or any Similar Law. The sale of any securities to any Plan or plan subject to Similar Law is in no respect a representation by us or any of our affiliates or representatives that such an investment meets all relevant legal requirements with respect to investments by plans generally or any particular plan, or that such an investment is appropriate for plans generally or any particular plan. In this regard, neither this discussion nor anything provided in this document is or is intended to be investment advice directed at any potential Plan purchaser or at Plan purchasers generally and such purchasers of these securities should consult and rely on their own counsel and advisers as to whether an investment in these securities is suitable.

However, individual retirement accounts, individual retirement annuities and Keogh plans, as well as employee benefit plans that permit participants to direct the investment of their accounts, will not be permitted to purchase or hold the securities if the account, plan or annuity is for the benefit of an employee of Morgan Stanley, Morgan Stanley Wealth Management or a family member and the employee receives any compensation (such as, for example, an addition to bonus) based on the purchase of the securities by the account, plan or annuity.

Additional considerations:

Client accounts over which Morgan Stanley, Morgan Stanley Wealth Management or any of their respective subsidiaries have investment discretion are **not** permitted to purchase the securities, either directly or indirectly.

Selected dealers, which may include our affiliates, and their financial advisors will collectively receive from the agent a fixed sales commission of \$ for each security they sell.

Supplemental information regarding plan of distribution; conflicts of interest:

MS & Co. is an affiliate of MSFL and a wholly owned subsidiary of Morgan Stanley, and it and other affiliates of ours expect to make a profit by selling, structuring and, when applicable, hedging the securities. When MS & Co. prices this offering of securities, it will determine the economic terms of the securities, including the contingent monthly coupon rate, such that for each security the estimated value on the pricing date will be no lower than the minimum level described in "Investment Summary" beginning on page 3.

MS & Co. will conduct this offering in compliance with the requirements of FINRA Rule 5121 of the Financial Industry Regulatory Authority, Inc., which is commonly referred to as FINRA, regarding a FINRA member firm's distribution of the securities of an affiliate and related

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conflicts of interest. MS & Co. or any of our other affiliates may not make sales in this offering to any discretionary account. See “Plan of Distribution (Conflicts of Interest)” and “Use of Proceeds and Hedging” in the accompanying product supplement for auto-callable securities.

Contact:

Morgan Stanley clients may contact their local Morgan Stanley branch office or Morgan Stanley’s principal executive offices at 1585 Broadway, New York, New York 10036 (telephone number (866) 477-4776). All other clients may contact their local brokerage representative. Third-party distributors may contact Morgan Stanley Structured Investment Sales at (800) 233-1087.

Morgan Stanley and MSFL have filed a registration statement (including a prospectus, as supplemented by the product supplement for auto-callable securities and the index supplement) with the Securities and Exchange Commission, or SEC, for the offering to which this communication relates. You should read the prospectus in that registration statement, the product supplement for auto-callable securities, the index supplement and any other documents relating to this offering that Morgan Stanley and MSFL have filed with the SEC for more complete information about Morgan Stanley, MSFL and this offering. You may get these documents without cost by visiting EDGAR on the SEC web site at www.sec.gov. Alternatively, Morgan Stanley, MSFL, any underwriter or any dealer participating in the offering will arrange to send you the prospectus, the product supplement for auto-callable securities and the index supplement if you so request by calling toll-free 1-(800)-584-6837.

Where you can find more information:

You may access these documents on the SEC web site at www.sec.gov as follows:

[Product Supplement for Auto-Callable Securities dated November 16, 2017](#)

[Index Supplement dated November 16, 2017](#)

[Prospectus dated November 16, 2017](#)

Terms used but not defined in this document are defined in the product supplement for auto-callable securities, in the index supplement or in the prospectus.

