

ROYAL BANK OF CANADA
 Form FWP
 March 05, 2018

Royal Bank of Canada
 Market Linked Securities
 Filed Pursuant to Rule 433
 Registration No. 333-208507
 Market Linked Securities – Leveraged Upside Participation to a Cap and Fixed Percentage Buffered
 Downside Principal at Risk Securities Linked to the S&P 500[®] Index due April 4, 2023
 Term Sheet to Preliminary Pricing Supplement No. WFC109 dated March 5, 2018

Summary of terms

Issuer	Royal Bank of Canada
Term	Approximately 5 years
Index	S&P 500 [®] Index
Pricing Date	March 29, 2018*
Original Issue Date	April 4, 2018*
Principal Amount	\$1,000 per security (each security will be offered at an initial public offering price of \$1,000)
Payment at Maturity	See “How the maturity payment amount is calculated” on page 3
Maturity Date	April 4, 2023*
Initial Index Level	The closing level of the Index on the pricing date
Final Index Level	The closing level of the Index on the valuation date
Maximum Maturity Payment Amount	[\$1,450.00 - \$1,500.00] per security (to be determined on the pricing date)
Buffer Level	85% of the Initial Index Level
Participation Rate	150%
Valuation Date	March 28, 2023*
Calculation Agent	RBC Capital Markets, LLC, a wholly-owned subsidiary of the issuer
Denominations	\$1,000 and any integral multiple of \$1,000
Underwriting Discount and Commission	Up to 4.50%, of which dealers, including those using the trade name Wells Fargo Advisors (“WFA”), may receive a selling concession of 2.50% and WFA will receive a distribution expense fee of 0.12%
CUSIP	78013XGM4

*To the extent that the issuer makes any change to the expected pricing date or expected original issue date, the valuation date and maturity date may also be changed in the issuer’s discretion to ensure that the term of the securities remains the same.

Investment description

·Linked to the S&P 500[®] Index.

Unlike ordinary debt securities, the securities do not pay interest or repay a fixed amount of principal at maturity. Instead, the securities provide for a payment at maturity that may be greater than, equal to or less than the initial public offering price of the securities, depending on the performance of the Index from its Initial Index Level to its Final Index Level.

The payment at maturity will reflect the following terms:

o If the level of the Index increases:

You will receive the initial public offering price plus 150% participation in the upside performance of the Index, subject to a maximum total return at maturity of 45% to 50% (to be determined on the pricing date) of the initial public offering price

o If the level of the Index stays unchanged or decreases but the decrease is not more than 15%:

You will be repaid the initial public offering price

o If the level of the Index decreases by more than 15%:

You will receive less than the initial public offering price and will have 1-to-1 downside exposure to any decrease in the level of the Index in excess of 15%.

· Investors may lose up to 85% of the initial public offering price

All payments on the securities are subject to the credit risk of Royal Bank of Canada, and you will have no ability to pursue the issuer of any securities represented by the Index for payment; if Royal Bank of Canada defaults on its obligations, you could lose some or all of your investment

· No periodic interest payments or dividends

· No exchange listing; designed to be held to maturity

The issuer's initial estimated value of the securities as of the date of the accompanying preliminary pricing supplement is \$[] per \$1,000 in principal amount, which is less than the public offering price. While the initial estimated value of the securities on the pricing date may differ from the estimated value set forth above, the issuer does not expect it to differ significantly absent a material change in market conditions or other relevant factors. The final pricing supplement relating to the securities will set forth the issuer's estimate of the initial value of the securities as of the pricing date, which will not be less than \$906.91 per \$1,000 in principal amount. The market value of the securities at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. See "Risk Factors" and "Supplemental Plan of Distribution – Structuring the Securities" in the accompanying preliminary pricing supplement for further information

The securities have complex features and investing in the securities involves risks not associated with an investment in conventional debt securities. See "Selected Risk Considerations" in this term sheet and "Risk Factors" in the accompanying preliminary pricing supplement and prospectus supplement.

This introductory term sheet does not provide all of the information that an investor should consider prior to making an investment decision.

Investors should carefully review the accompanying preliminary pricing supplement, prospectus supplement and prospectus before making a decision to invest in the securities.

NOT A BANK DEPOSIT AND NOT INSURED OR GUARANTEED BY THE FDIC OR ANY OTHER GOVERNMENTAL AGENCY

Hypothetical payout profile

The profile to the right is based on a hypothetical maximum maturity payment amount of 147.50% of the principal amount or \$1,475.00 per \$1,000 security (the midpoint of the specified range for the maximum maturity payment amount), a participation rate of 150% and a Buffer Level equal to 85% of the Initial Index Level.

This graph has been prepared for purposes of illustration only. Your actual return will depend on the actual Final Index Level, the actual maximum maturity payment amount, and whether you hold your securities to maturity.

Hypothetical returns

Hypothetical Final Index Level	Percentage Change from the Hypothetical Initial Index Level to the Hypothetical Final Index Level	Hypothetical Maturity Payment Amount per Security	Hypothetical Pre-Tax Total Rate of Return on the Securities
0.00	-100.00%	\$150.00	-85.00%
300.00	-90.00%	\$250.00	-75.00%
600.00	-80.00%	\$350.00	-65.00%
900.00	-70.00%	\$450.00	-55.00%
1,200.00	-60.00%	\$550.00	-45.00%
1,350.00	-55.00%	\$600.00	-40.00%
1,500.00	-50.00%	\$650.00	-35.00%
1,650.00	-45.00%	\$700.00	-30.00%
1,800.00	-40.00%	\$750.00	-25.00%
2,100.00	-30.00%	\$850.00	-15.00%
2,400.00	-20.00%	\$950.00	-5.00%
2,550.00 (1)	-15.00%	\$1,000.00	0.00%
2,700.00	-10.00%	\$1,000.00	0.00%
3,000.00 (2)	0.00%	\$1,000.00	0.00%
3,300.00	10.00%	\$1,150.00	15.00%
3,600.00	20.00%	\$1,300.00	30.00%
3,900.00	30.00%	\$1,450.00	45.00%
3,950.00	31.66%	\$1,475.00 (3)	47.50%
4,200.00	40.00%	\$1,475.00	47.50%
4,500.00	50.00%	\$1,475.00	47.50%
4,800.00	60.00%	\$1,475.00	47.50%
5,100.00	70.00%	\$1,475.00	47.50%
5,400.00	80.00%	\$1,475.00	47.50%
5,700.00	90.00%	\$1,475.00	47.50%
6,000.00	100.00%	\$1,475.00	47.50%

(1) This is the hypothetical Buffer Level.

(2) This is the hypothetical Initial Index Level.

(3) This is the hypothetical maximum maturity payment amount of \$1,475.00 (the mid-point of the specified range for the maximum maturity payment amount).

How the maturity payment amount is calculated

The maturity payment amount will be determined as follows:

· If the Final Index Level is greater than the Initial Index Level, the maturity payment amount per security will equal the lesser of:

(i)

(ii) the maximum maturity payment amount

· If the Final Index Level is equal to or less than the Initial Index Level but greater than or equal to the Buffer Level, the maturity payment amount per security will equal the issue price of \$1,000.00

· If the Final Index Level is less than the Buffer Level, the maturity payment amount per security will equal:

In such a case, you will lose up to 85% of your principal.

S&P 500® Index daily closing levels*

*The graph above sets forth the daily closing levels of the Index for the period from January 1, 2008 to February 28, 2018. The closing level on March 1, 2018 was 2,677.67. The historical performance of the Index is not an indication of its future performance during the term of the securities.

Selected risk considerations

The risks set forth below are discussed in detail in the “Risk Factors” section in the accompanying preliminary pricing supplement. Please review those risk disclosures carefully.

- Your investment may result in a loss of up to 85% of your principal
 - You will not receive interest payments on the securities
 - Your yield may be lower than the yield on a standard debt security of comparable maturity
 - Your return is limited and will not reflect the return of owning the common stocks represented by the Index
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- Owning the securities is not the same as owning the common stocks represented by the Index
- There may not be an active trading market for the securities
- The amount to be paid at maturity is not linked to the level of the Index at any time other than the valuation date
- Many factors affect the market value of the securities
- The securities will be debt obligations of Royal Bank of Canada. No other company or entity will be responsible for payments under the securities
- We have no affiliation with the sponsor of the Index and will not be responsible for any actions taken by the sponsor
- Historical levels of the Index should not be taken as an indication of the future levels of the Index during the term of the securities
- Hedging transactions may affect the return on the securities
- Our initial estimated value of the securities will be less than the initial public offering price
- The price, if any, at which you may be able to sell your securities prior to maturity may be less than the initial public offering price and our initial estimated value
- The initial estimated value of the securities will be an estimate only, calculated as of the time the terms of the securities are set
- Potential conflicts of interest could arise
- The calculation agent may postpone the valuation date and, therefore, determination of the Final Index Level and the maturity date if a market disruption event occurs on the valuation date
- There are potential conflicts of interest between you and the calculation agent
- Risks associated with non-U.S. companies
- The securities will not be adjusted for changes in exchange rates
- The tax treatment of the securities is uncertain and gain on the securities may be treated as ordinary income under the constructive ownership rules

Not suitable for all investors

Investment suitability must be determined individually for each investor. The securities described herein are not a suitable investment for all investors. In particular, no investor should purchase the securities unless they understand and are able to bear the associated market, liquidity and yield risks. Unless market conditions and other relevant factors change significantly in your favor, a sale of the securities prior to maturity is likely to result in sale proceeds that are substantially less than the initial public offering price per security. Royal Bank of Canada, Wells Fargo Securities, LLC and their respective affiliates are not obligated to purchase the securities from you at any time prior to maturity.

The issuer has filed a registration statement (including a prospectus) with the SEC for the offering to which this communication relates. Before you invest, you should read the prospectus in that registration statement and other documents the issuer has filed with the SEC for more complete information about the issuer and this offering. You may get these documents for free by visiting EDGAR on the SEC website at www.sec.gov. Alternatively, any underwriter or any dealer participating in the offering will arrange to send you the prospectus if you request it by calling your financial advisor or by calling Royal Bank of Canada at 1-877-688-2301.

Wells Fargo Advisors is a trade name used by Wells Fargo Clearing Services, LLC and Wells Fargo Advisors Financial Network, LLC, members SIPC, separate registered broker-dealers and non-bank affiliates of Wells Fargo & Company.

Consult your tax advisor

Investors should review carefully the accompanying preliminary pricing supplement, prospectus supplement and prospectus and consult their tax advisors regarding the application of the U.S. federal income tax laws to their particular circumstances, as well as any tax consequences arising under the laws of any state, local or foreign jurisdiction.

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INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS

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1,402,619 (560,913) 2,119,803
Cash and cash equivalents at beginning of period
717,184 1,284,432

Cash and cash equivalents at end of period
\$2,119,803 \$723,519 \$2,119,803

NONCASH FINANCING AND INVESTING ACTIVITIES:

Issuance of common shares in exchange for shares of common stock of Cryomedical Sciences, Inc. in a stock-for-stock transaction
\$ \$ \$197,400
Conversion of line of credit to debentures
840,878
Issuance of Warrants for private placement costs
403,312
Issuance of Warrants related to debenture financing and line of credit agreement
1,911,106
Conversion of debentures to Common shares
1,500,000 1,500,000
Issuance of Warrants to Guarantors for participation in the Rights Offer
82,500 82,500

SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION:

Cash paid for interest
\$175,552 \$168,877

See notes to condensed financial statements.

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BIOTIME, INC.

(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS

1. Organization

General BioTime, Inc. (the Company) was organized November 30, 1990 as a California corporation. The Company is a biomedical organization, currently in the development stage, which is engaged in the research and development of synthetic plasma expanders, blood volume substitute solutions, and organ preservation solutions, for use in surgery, trauma care, organ transplant procedures, and other areas of medicine.

The condensed balance sheet as of March 31, 2004, the condensed statements of operations for the three months ended March 31, 2004 and 2003 and the period from inception (November 30, 1990) to March 31, 2004, and the statements of cash flows for the three months ended March 31, 2004 and 2003 and the period from inception (November 30, 1990) to March 31, 2004 have been prepared by the Company without audit. In the opinion of management, all adjustments (consisting only of normal recurring adjustments) necessary to present fairly the financial position, results of operations, and cash flows at March 31, 2004 and for all periods presented have been made. The balance sheet as of December 31, 2003 is derived from the Company's audited financial statements as of that date. The results of operations for the three months ended March 31, 2004 are not necessarily indicative of the operating results anticipated for the full year.

Certain information and footnote disclosures normally included in financial statements prepared in accordance with generally accepted accounting principles have been condensed or omitted as permitted by regulations of the Securities and Exchange Commission. Certain previously furnished amounts have been reclassified to conform with presentations made during the current periods. It is suggested that these interim condensed financial statements be read in conjunction with the annual audited financial statements and notes thereto included in the Company's Form 10-K for the year ended December 31, 2003.

Development Stage Enterprise Since inception, the Company has been engaged in research and development activities in connection with the development of synthetic plasma expanders, blood volume substitute solutions and organ preservation products. The Company has limited operating revenues and has incurred net losses of \$37,000,186 from inception to March 31, 2004. The successful completion of the Company's product development program and, ultimately, achieving profitable operations is dependent upon future events including maintaining adequate capital to finance its future development activities, obtaining regulatory approvals for the products it develops and achieving a level of revenues adequate to support the Company's cost structure.

The Company's operations are subject to a number of factors that can affect its operating results and financial condition. Such factors include but are not limited to the following: the results of clinical trials of the Company's products; the Company's ability to obtain United States Food and Drug Administration and foreign regulatory approval to market its products; competition from products manufactured and sold or being developed by other companies; the price of and demand for Company products; the Company's ability to obtain additional financing and the terms of any such financing that may be obtained; the Company's ability to negotiate favorable licensing or other manufacturing and marketing agreements for its products; the availability of ingredients used in the Company's products; and the availability of reimbursement for the cost of the Company's products (and related treatment) from government health administration authorities, private health coverage insurers and other organizations.

Liquidity At March 31, 2004, BioTime had \$2,119,803 of cash on hand, which includes funds raised in a Rights Offering completed in January. However, the Company needs additional capital and greater revenues to continue its current operations, to complete clinical trials of PentaLyte®, and to conduct its planned product development and research programs. Sales of additional equity securities could result in the dilution of the interests of present shareholders. The Company is also continuing to seek new agreements with pharmaceutical companies to provide product and technology licensing fees and royalties. The availability and terms of

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NOTES TO FINANCIAL STATEMENTS (Continued)

equity financing and new license agreements are uncertain. The unavailability or inadequacy of additional financing or future revenues to meet capital needs could force the Company to modify, curtail, delay, suspend, or possibly discontinue some or all aspects of its planned operations. However, management believes its existing cash, along with license fees receivable and anticipated royalties, is sufficient to allow the Company to operate through June 30, 2005.

2. Significant Accounting Policies

Financial Statement Estimates The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Such management estimates include certain accruals. Actual results could differ from those estimates.

Revenue recognition In April 1997, BioTime and Abbott Laboratories (Abbott) entered into an Exclusive License Agreement (the License Agreement) under which BioTime granted to Abbott an exclusive license to manufacture and sell BioTime s proprietary blood plasma volume expander solution Hextend® in the United States and Canada for certain therapeutic uses. During the second quarter of 2004, Abbott completed the spin-off of a substantial portion of its hospital products division as a new company called Hospira, Inc. Abbott has assigned the BioTime License Agreement to Hospira.

Under the License Agreement, Abbott paid the Company \$2,500,000 of license fees based upon achievement of specified milestones. Such fees have been recognized as revenue as the milestones were achieved. Up to \$37,500,000 of additional license fees will be payable based upon annual net sales of Hextend® at the rate of 10% of annual net sales if annual net sales exceed \$30,000,000 or 5% if annual net sales are between \$15,000,000 and \$30,000,000.

Abbott s obligation to pay license fees on sales of Hextend® will expire on the earlier of January 1, 2007 or, on a country by country basis, when all patents protecting Hextend® in the applicable country expire or any third party obtains certain regulatory approvals to market a generic equivalent product in that country.

In addition to the license fees, the Company will receive a royalty on annual net sales of Hextend®. The royalty rate will be 5% plus an additional .22% for each increment of \$1,000,000 of annual net sales, up to a maximum royalty rate of 36%. The obligation to pay royalties on sales of Hextend® will expire in the United States or Canada when all patents protecting Hextend® in the applicable country expire and any third party obtains certain regulatory approvals to market a generic equivalent product in that country.

The Company recognizes such revenues in the quarter in which the sales report is received, rather than the quarter in which the sales took place, as the Company does not have sufficient sales history to accurately predict quarterly sales. Revenues for the three months ended March 31, 2004 include royalties on sales made by Abbott during the three months ended December 31, 2003. Royalties on sales made during the first quarter of 2004 will not be recognized by the Company until the second quarter of fiscal year 2004.

Under the License Agreement, the Company may convert the exclusive license to a non-exclusive license or may terminate the license outright if certain minimum sales and royalty payments are not met. In order to terminate the license outright, BioTime would pay a termination fee in an amount ranging from the milestone payments made by Abbott to an amount equal to three times prior year net sales, depending upon when termination occurs. Management believes that the probability of payments of any termination fee by the Company is remote.

Research and product license fees are generally deferred and recognized over the life of the contract unless the license periods commenced, the technology has been delivered, and all other performance

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NOTES TO FINANCIAL STATEMENTS (Continued)

conditions have been met. If all of these conditions are met, any remaining deferred revenue would then be recognized.

During March 2003, BioTime granted to CJ Corp. (CJ) an exclusive license to manufacture and sell Hextend® and PentaLyte® in South Korea (the CJ Agreement). Under the CJ Agreement, CJ agreed to pay the Company a license fee of \$800,000, payable in two installments. The first installment of \$500,000, less \$80,000 of Korean taxes withheld, was paid to the Company during April 2003. In connection with this agreement, the Company paid a finder s fee of \$50,000 to an unrelated third party. The Company has not yet completed the development of PentaLyte, for which additional clinical trials in the United States are being planned. As the expected completion date is uncertain, the license fee of \$500,000, net of the \$50,000 finder s fee, has been deferred and will be recognized as revenue over the life of the contract, which has been estimated to be approximately eight years based on the current expected life of the governing patent covering the Company s products in Korea. If BioTime discontinues the development of PentaLyte, then it shall grant to CJ a license fee-free exclusive license to use, manufacture, or sell other BioTime products (as defined in the CJ Agreement) in South Korea. The remaining \$300,000 is payable to the Company within 30 days after an application for regulatory approval to manufacture and market Hextend® is filed in Korea. In addition to the license fees, CJ will pay the Company a royalty on sales of the licensed products. The royalty will range from \$1.30 to \$2.60 per 500 ml unit of product sold, depending upon the price approved by Korea s National Health Insurance, but CJ Corp. will have to obtain regulatory approval before sales can begin. CJ will be responsible for obtaining the regulatory approvals required to manufacture and market Hextend® and PentaLyte®, including conducting any clinical trials that may be required, and will bear all related costs and expenses.

Indemnification The following is a summary of the Company s agreements that the Company has determined are within the scope of the Financial Accounting Standards Board (the FASB) interpretation No. 45 (FIN 45), Guarantor s Accounting and Disclosure Requirements for Guarantees, including Indirect Guarantees of Indebtedness of Others an interpretation of FASB Statements No. 5, 57 and 107 and rescission of FIN 34.

Under its bylaws, the Company has agreed to indemnify its officers and directors for certain events or occurrences arising as a result of the officer or director s serving in such capacity. The term of the indemnification period is for the officer s or director s lifetime. The maximum potential amount of future payments the Company could be required to make under the indemnification provisions contained in its bylaws is unlimited. However, the Company has a directors and officers liability insurance policy that limits its exposure and enables it to recover a portion of any future amounts paid. As a result of its insurance policy coverage, the Company believes the estimated fair value of these indemnification agreements is minimal and has no liabilities recorded for these agreements as of March 31, 2004.

Under the License Agreement and the CJ Agreement, BioTime shall indemnify Abbott, Hospira, and/or CJ for any cost or expense resulting from any third party claim or lawsuit arising from alleged patent infringement, as defined, by Abbott, Hospira, or CJ relating to actions covered by the License Agreement or the CJ Agreement, respectively. Management believes that the possibility of payments under the indemnification clauses by the Company is remote. Therefore, the Company has not recorded a provision for potential claims as of March 31, 2004.

The Company enters into indemnification provisions under (i) its agreements with other companies in its ordinary course of business, typically with business partners, licensees, contractors, hospitals at which clinical studies are conducted, and landlords and (ii) its agreements with investors, investment bankers and financial advisers. Under these provisions the Company generally indemnifies and hold harmless the indemnified party for losses suffered or incurred by the indemnified party as a result of the Company s activities or, in some cases, as a result of the indemnified party s activities under the agreement. These indemnification provisions often include indemnifications relating to representations made by the Company with regard to intellectual

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NOTES TO FINANCIAL STATEMENTS (Continued)

property rights. These indemnification provisions generally survive termination of the underlying agreement. In some cases, the Company has obtained liability insurance providing coverage that limits its exposure for indemnified matters. The maximum potential amount of future payments the Company could be required to make under these indemnification provisions is unlimited. The Company has not incurred material costs to defend lawsuits or settle claims related to these indemnification agreements. As a result, the Company believes the estimated fair value of these agreements is minimal. Accordingly, the Company has no liabilities recorded for these agreements as of March 31, 2004.

Comprehensive Income (Loss) Statement of Financial Accounting Standards (SFAS) No. 130, Reporting Comprehensive Income, establishes standards for reporting and displaying comprehensive income and its components (revenues, expenses, gains, and losses) in a full set of general-purpose financial statements. Comprehensive loss was the same as net loss for all periods presented.

Stock-based Compensation In December 2002, the FASB issued SFAS No. 148, Accounting for Stock-Based Compensation Transition and Disclosure, which amended SFAS No. 123, Accounting for Stock-Based Compensation. The new standard provides alternative methods of transition for a voluntary change to the fair value based method of accounting for stock-based employee compensation. Additionally, the statement amends the disclosure requirements of SFAS No. 123 to require prominent disclosures in the annual and interim financial statements about the method of accounting for stock-based employee compensation and the effect of the method used on reported results. This statement is effective for financial statements for fiscal years ending after December 15, 2002. The Company has elected to continue to follow the intrinsic value method in accounting for its stock-based employee compensation arrangement as defined by Accounting Principles Board Opinion (APB) No. 25, Accounting for Stock Issued to Employees.

Had compensation cost for employee options granted under the Company's option plans been determined based on the fair value at the grant dates, as prescribed in SFAS No. 123, the Company's net loss and pro forma net loss per share would have been as follows:

	Three Months Ended March 31,	
	2004	2003
Net loss as reported	\$(1,642,942)	\$(751,129)
Deduct: Stock-based compensation determined under fair value method for awards, net of tax	(19,913)	(118,940)
	(1,662,855)	(870,069)
	2004	2003
Basic and diluted loss per common share as reported	\$(0.10)	\$(0.06)
Pro forma basic and diluted loss per common share	\$(0.10)	\$(0.06)

3. Debentures

In August 2001, the Company issued \$3,350,000 of debentures to an investor group. As part of the \$3,350,000 debenture issuance, Alfred D. Kingsley, an investor and consultant to the Company, agreed to convert the \$1,000,000 outstanding balance under a one year Revolving Line of Credit Agreement (the Credit Agreement) to \$1,000,000 of debentures and purchased an additional \$500,000 of debentures for cash. On the date of the conversion of the Credit Agreement to the debentures, the Credit Agreement was terminated, and no additional borrowings are available under that Credit Agreement. Interest on the debentures was payable at an annual rate of 10% and was payable semi-annually.

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Investors who purchased the debentures also received warrants to purchase a total of 515,385 common shares at an exercise price of \$6.50. The warrants expire on August 1, 2004. The total fair value of the warrants of \$1,596,124 was determined using the Black-Scholes option pricing model with the following assumptions: contractual life of 3 years; risk-free interest rate of 4.04%; volatility of 88%; and no dividends during the expected term. Of the \$3,350,000 of proceeds, \$1,596,124 and the unamortized portion (\$159,122) of the fair value of a warrant issued in connection with the Credit Agreement was allocated to the warrants. The portion of the proceeds allocated to the debentures is being accreted to interest expense over the term of the debentures using the effective interest rate method. The Company has the right to call the warrants for redemption at a redemption price of \$0.01 per share if the closing price of the Company's common shares equals or exceeds 150% of the exercise price for fifteen consecutive trading days.

During April 2003, holders of \$2,750,000 principal amount of the debentures granted BioTime a pay in kind right allowing (but not requiring) BioTime to make interest payments in common shares instead of cash for the interest payments due during August 2003 and February 2004 (the PIK Right). BioTime retained the right to pay the interest due in cash.

Each debenture holder who agreed to grant BioTime the PIK Right received a three-year warrant entitling the holder to purchase BioTime common shares for \$1.50 per share. The number of shares covered by the warrants is the amount of debenture interest due in August 2003 and February 2004 divided by the \$1.50 exercise price. Warrants to purchase a total of 223,331 common shares were issued.

The warrants will expire on April 1, 2006, and will not be exercisable thereafter. The warrants will be redeemable by BioTime at \$0.05 per warrant share if the closing price of the common shares on the American Stock Exchange exceeds 200% of the exercise price for 20 consecutive trading days. BioTime granted registration rights for the warrants and shares on substantially the same terms as the registration rights covering the warrants issued when the debentures were originally sold. All prices and share amounts will be adjusted for any stock splits, reverse splits, recapitalization, or similar changes to the common shares.

Alfred Kingsley agreed with BioTime that if BioTime exercised the PIK right, he would have provided BioTime with the cash required to pay the interest due on any debentures held by persons who did not grant BioTime the PIK Right. In consideration of his agreement to do so, BioTime issued to Mr. Kingsley a warrant for 39,999 additional common shares, which is the amount of warrants that would have been issued had the debenture holders who did not grant BioTime the PIK Right, instead agreed to do so. BioTime, Inc., chose not to exercise the right to pay interest in stock and paid all interest on the debentures in cash.

During February 2004, the Company eliminated its \$3,350,000 of debenture indebtedness by using a portion of the proceeds of its recently completed subscription rights offer (see Note 4) to repay \$1,850,000 of debentures in cash, and by issuing a total of 1,071,428 common shares and 535,712 common share purchase warrants in exchange for \$1,500,000 of debentures held by certain persons who acted as Participating Debenture Holders under the Standby Purchase Agreement described in Note 4. As the fair value of the consideration of \$3,781,786 given to the debenture holders exceeded the carrying value of the debentures, BioTime recognized interest expense of \$1,106,392 relative to the cost incurred on the extinguishment of the debentures. The components of this charge are as follows: 1) a \$664,606 charge for unamortized discount of the warrants issued to the debenture holders at the time they acquired the debentures; 2) a \$265,000 charge for fees of \$100,000 of cash and 500,000 common share purchase warrants, bearing the same terms as those sold in the Rights Offer described in Note 4 and determined to have a fair value of \$0.33 per warrant based on the AMEX closing price of \$0.33 on February 4, 2004, received by the Participating Debenture Holders under the Standby Purchase Agreement; and 3) a \$176,786 charge for the excess of the fair value of the 1,071,428 shares of common stock with a fair value of \$1.40 based on the February 4, 2004 closing stock price and warrants with a fair value of \$0.33 per share over \$1,500,000 face value of debentures exchanged. BioTime now has no long-term debt.

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NOTES TO FINANCIAL STATEMENTS (Continued)

4. Shareholders Equity (Deficit)

During January 2004, BioTime completed a subscription rights offer (the Rights Offer) through which the Company raised gross proceeds of \$3,584,424 through the sale of 2,560,303 common shares and 1,280,073 warrants. Following the completion of the Rights Offer, the Company raised an additional \$600,000 by selling an additional 428,571 common shares and 214,284 warrants under a Standby Purchase Agreement to certain persons who acted as Guarantors of the Rights Offer. The common shares and warrants were sold as units for \$1.40 per unit. Each unit consisted of one common share and one-half of a warrant. Each full warrant entitles the holder to purchase one common share for \$2.00 per share and will expire on January 14, 2007. BioTime may redeem the warrants by paying \$.05 per warrant if the closing price of the common shares on the AMEX or any other national securities exchange or the Nasdaq Stock Market exceeds 200% of the exercise price of the warrants for any 20 consecutive trading days.

In consideration for their agreement to purchase up to \$2,250,000 of units if the subscription rights were not fully exercised, under the Standby Purchase Agreement the Company paid the Guarantors \$50,000 in cash and issued to them warrants to purchase 250,000 common shares, which were accounted for as costs of the equity financing. Total estimated cash costs of the Rights Offer, which were recorded as a reduction of the proceeds received, were \$351,516. Also, the Company paid the Participating Debenture Holders \$100,000 in cash and issued to them warrants to purchase 500,000 common shares, which were included in the computation of the cost on extinguishments of the debentures (See Note 3). The warrants issued to the Guarantors and Participating Debenture Holders have the same terms as the warrants the Company sold in the Rights Offer.

Additionally, the Company issued a total of 1,071,428 common shares and 535,712 common share purchase warrants in exchange for \$1,500,000 of debentures held by the Participating Debenture Holders (See Note 3).

The Rights Offer triggered the anti-dilution provisions contained in various warrants previously issued by the Company. The resulting change in the exercise prices of the warrants was small, and did not significantly change the fair market value of the warrants. Under these anti-dilution provisions, the number of shares issuable upon the exercise of the warrants increased by a total of 15,169 shares. The Company recognized a total charge to interest expense of \$6,135 relative to the adjustments of the exercise prices and the number of shares issuable upon the exercise of the warrants.

Options to purchase 60,000 common shares were granted to consultants in 1999, and vest upon achievement of certain milestones. During the first quarter of 2004, the Company accelerated the vesting of these options so that all were fully vested as of March 31, 2004. During the three months ended March 31, 2004, expense of \$8,276 was incurred for these options and recorded as a research and development expense. At March 31, 2003, 23,000 options had vested, and 37,000 options had not vested. During the three months ended March 31, 2003, remeasurement of the options did not yield a change in their fair market value and accordingly no expense was recorded for such options.

During April 1998, the company entered into a financial advisory services agreement with Greenbelt Corp., a corporation controlled by Alfred D. Kingsley and Gary K. Duberstein, who are also shareholders of

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BIOTIME, INC.
(A Development Stage Company)

NOTES TO FINANCIAL STATEMENTS (Continued)

the Company. The agreement has been renewed each subsequent year ending March 31. For the twelve months ended March 31, 2004, the Company agreed to pay Greenbelt \$90,000 in cash and issue 80,000 common shares. For the twelve months ended March 31, 2003, the Company agreed to pay Greenbelt \$60,000 in cash and issue 100,000 common shares. Activity in relation to this agreement is presented in the table below:

	Balance Included in Accounts Payable at January 1	Add: Expense Accrued	Less: Cash Payments	Less: Value of Stock-Based Payments	Balance Included in Accounts Payable at March 31,
2004	\$ 105,300	62,500	(45,000)	(86,400)	\$ 36,400
2003	\$ 131,250	53,750	(15,000)	(155,000)	\$ 15,000

During the three months ended March 31, 2004 and 2003, the Company issued 60,000 and 100,000 common shares, respectively, valued at \$86,400 and \$155,000 to Greenbelt.

The unpaid balance of \$36,400 included in accounts payable at March 31, 2004 was settled through the issuance of 20,000 common shares during April 2004.

During March 2004, the board of directors approved the renewal of the engagement of Greenbelt Corp. as the Company's financial advisor for the 12 months ending March 31, 2005 for compensation of \$90,000 in cash and 60,000 common shares. The common shares issued during April 2004 were issued, and the common shares issuable during the next 12 months will be issued, without registration under the Securities Act of 1933, as amended, pursuant to the exemption provided in Section 4(2) and Rule 506 thereunder. The agreement with Greenbelt requires the Company to register these shares for sale under the Securities Act of 1933, as amended, upon request.

5. Net Income (Loss) Per Share

Basic earnings (loss) per share excludes dilution and is computed by dividing net income (loss) by the weighted average number of common shares outstanding during the period. Diluted earnings (loss) per share reflect the potential dilution from securities and other contracts which are exercisable or convertible into common shares. For the three months ended March 31, 2004 and March 31, 2003, options to purchase 951,367 and 910,033 common shares, and warrants to purchase 3,678,879 and 725,078 common shares were excluded from the computation of earnings (loss) per share as their inclusion would be antidilutive. As a result, there is no difference between basic and diluted calculations of loss per share for all periods presented.

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Item 2. *Management's Discussion and Analysis of Financial Condition and Results of Operations.*

**MANAGEMENT'S DISCUSSION AND ANALYSIS OF
FINANCIAL CONDITION AND RESULTS OF OPERATIONS**

Overview

Since its inception in November 1990, BioTime has been engaged primarily in research and development activities, which have culminated in the commercial launch of Hextend, our lead product, and a clinical trial of PentaLyte. Our operating revenues have been generated primarily from licensing fees, including \$2,500,000 received from Abbott Laboratories for the right to manufacture and market Hextend® in the United States and Canada. As a result of the developmental nature of our business and the limited sales of our products, since BioTime's inception in November 1990 we have incurred \$37,000,186 of losses. Our ability to generate substantial operating revenue depends upon our success in developing and marketing or licensing our plasma volume expanders and organ preservation solutions and technology for medical use.

Most of our research and development efforts have been devoted to our first three blood volume replacement products: Hextend, PentaLyte, and HetaCool. By testing and bringing all three products to the market, we can increase our market share by providing the medical community with solutions to match patients' needs. By developing technology for the use of HetaCool in low temperature surgery, trauma care, and organ transplant surgery, we may also create new market segments for our product line.

Our first product, Hextend, is a physiologically balanced blood plasma volume expander, for the treatment of hypovolemia. During 1997 we granted Abbott an exclusive license to sell Hextend in the United States and Canada, along with a right to obtain licenses to manufacture and sell other BioTime products. Abbott has completed a spin-off of a substantial portion of its hospital products business into a new company called Hospira, Inc. Abbott has assigned to Hospira its license to manufacture and market Hextend. According to information disclosed by Abbott, Abbott had global sales of approximately \$19.7 billion during 2003, and has over 70,000 employees. According to information disclosed by Hospira, it employs approximately 14,000 people worldwide, and had the spin-off occurred on January 1, 2003, Hospira would have had net sales of approximately \$2.5 billion for the year ended December 31, 2003.

Under our License Agreement, Hospira will report sales of Hextend and pay us the royalties and license fees due on account of such sales within 90 days after the end of each calendar quarter. We recognize such revenues in the quarter in which the sales report is received, rather than the quarter in which the sales took place, as we do not have sufficient sales history to accurately predict quarterly sales. Hextend sales are still in the ramp-up phase.

During March 2003, we granted to CJ Corp. an exclusive license to manufacture and sell Hextend and PentaLyte in South Korea (the CJ Agreement). CJ will be responsible for obtaining the regulatory approvals required to manufacture and market Hextend and PentaLyte, including conducting any clinical trials that may be required, and will bear all related costs and expenses.

We have retained all rights to manufacture, sell or license Hextend, PentaLyte, HetaCool, and other products in all other countries, and we are negotiating potential manufacturing, distributing and marketing agreements for our products in certain overseas markets.

Revenues for the three months ended March 31, 2004 consist of royalties on sales made by Abbott during the period beginning October 1, 2003 and ending December 31, 2003. Royalty revenues recognized for that three-month period were \$115,887, a 19.9% increase over the \$96,622 of royalty revenue during the same period last year.

We received \$181,274 in royalties from Abbott, based on Hextend sales during the three months ended March 31, 2004. This represents an increase of 117.8% over royalties of \$83,234 received during the same period last year. This revenue will be reflected in our financial statements for the second quarter of 2004.

A significant portion of the increase in royalties is attributable to an increase in sales to the United States Armed Forces, and the balance of the increase is due to increases in hospital sales.

The Armed Forces purchase Hextend through intermittent, large volume orders, which makes it difficult to predict sales to them in subsequent quarters.

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Hextend has become the standard plasma volume expander at a number of prominent teaching hospitals and leading medical centers. We believe that as Hextend use proliferates within the leading US hospitals, other smaller hospitals will follow their lead and accelerate sales growth.

We have completed a Phase I clinical trial of PentaLyte and we are planning the next phase of clinical trials in which PentaLyte will be used to treat hypovolemia in surgery. We have spent approximately \$2,046,889 in direct costs through March 31, 2004 developing PentaLyte. Our ability to commence and complete additional clinical studies of PentaLyte depends on our cash resources and the costs involved, which are not presently determinable. Clinical trials of PentaLyte in the United States may take longer and may be more costly than the Hextend clinical trials, which cost approximately \$3,000,000. The FDA permitted us to proceed directly into a Phase III clinical trial of Hextend involving only 120 patients because the active ingredients in Hextend had already been approved for use in plasma expanders by the FDA in other products. Because PentaLyte contains a starch (pentastarch) that has not been approved by the FDA for use in a plasma volume expander (although pentastarch is approved in the US for use in certain intravenous solutions used to collect certain blood cell fractions), we had to complete a Phase I clinical trial of PentaLyte, and we may have to complete a Phase II clinical trial in addition to a Phase III trial or a combined Phase II/ III trial, that will involve more patients than the Hextend trials. We estimate that a Phase II trial could be undertaken for approximately \$1,000,000, but we do not know yet the actual scope or cost of the clinical trials that the FDA will require for PentaLyte or the other products we are developing.

If Hospira obtains a license to manufacture and market PentaLyte under our License Agreement with them, they would reimburse us for our direct costs incurred in developing PentaLyte. Hospira's decision whether to license PentaLyte would follow the completion of our Phase II trial, or if we proceed directly into a Phase II/III trial, the first successful human use in that trial.

Plasma volume expanders containing pentastarch have been approved for use in certain foreign countries including Canada and those of the European Union and Japan. The regulatory agencies in those countries may be more willing to accept applications for regulatory approval of PentaLyte based upon clinical trials smaller in scope than those that may be required by the FDA. This would permit us to bring PentaLyte to market overseas more quickly than in the United States, provided that suitable licensing arrangements can be made with multinational or foreign pharmaceutical companies to obtain financing for clinical trials and manufacturing and marketing arrangements.

We are also continuing to develop solutions for low temperature surgery. Once a sufficient amount of data from successful low temperature surgery has been compiled, we plan to seek permission to use Hextend as a complete replacement for blood under near-freezing conditions. We currently plan to market Hextend for complete blood volume replacement at very low temperatures under the registered trademark HetaCool® after FDA approval is obtained.

We have spent approximately \$1,680,000 through March 31, 2004 developing HetaCool. These costs do not include the cost of developing Hextend, upon which HetaCool is based. During April 2004, we were awarded a research grant by the National Heart, Lung, and Blood Institute division of the National Institutes of Health (NIH) for use in the development of HetaCool. The grant will be used to fund a project entitled Resuscitating Blood-Substituted Hypothermic Dogs at the Texas Heart Institute in Houston under the guidance of Dr. George V. Letsou. Dr. Letsou is Associate Professor of Surgery and Director of the Heart Failure Center at the University of Texas Medical School in Houston, Texas. We may receive up to \$299,990 through the grant, including \$149,994 during 2004 and subject to availability of funds and satisfactory progress on the project an additional \$149,996 during 2005.

BioTime scientists believe the HetaCool program has the potential to produce a product that could be used in very high fluid volumes (50 liters or more per procedure if HetaCool were used as an multi-organ donor preservation solution or to temporarily replace substantially all of the patient's circulating blood volume) in cardiovascular surgery, trauma treatment, and organ transplantation. However, the cost and time to complete the development of HetaCool, including clinical trials, cannot presently be determined.

Until such time as we are able to complete the development of PentaLyte and HetaCool and enter into commercial license agreements for those products and foreign commercial license agreements for Hextend, we will depend upon royalties from the sale of Hextend by Hospira, and from CJ once product sales commence in Korea, as our principal source of revenues.

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The amount and pace of research and development work that we can do or sponsor, and our ability to commence and complete clinical trials required to obtain FDA and foreign regulatory approval of products, depends upon the amount of money we have. Future research and clinical study costs are not presently determinable due to many factors, including the inherent uncertainty of these costs and the uncertainty as to timing, source, and amount of capital that will become available for these projects. We have already curtailed the pace of our product development efforts due to the limited amount of funds available, and we may have to postpone further laboratory and clinical studies, unless our cash resources increase through growth in revenues, the completion of licensing agreements, additional equity investment, borrowing or third party sponsorship.

Because our research and development expenses, clinical trial expenses, and production and marketing expenses will be charged against earnings for financial reporting purposes, management expects that there will be losses from operations in the near term.

Hextend®, PentaLyte®, and HetaCool® are registered trademarks of BioTime.

Results of Operations

Revenues

From inception through March 31, 2004, we recognized \$2,557,000 of license fee revenues. All license fees based upon milestones under the License Agreement with Abbott were earned prior to the quarter ended March 31, 2004. See Note 2 to the accompanying condensed financial statements.

From inception through March 31, 2004, we have recognized \$1,187,172 in royalty revenue based on product sales. For the three months ended March 31, 2004, we recognized \$115,887 in royalty revenue, whereas we recognized \$96,622 for the three months ended March 31, 2003. This 19.9% increase in royalties is attributable to an increase in product sales by Abbott.

Operating Expenses

From inception (November 30, 1990) through March 31, 2004, we incurred \$23,864,832 of research and development expenses. Research and development expenses were \$227,806 for the three months ended March 31, 2004, compared to \$224,536 for the three months ended March 31, 2003. This increase is chiefly attributable to a \$15,000 increase in outside research, offset by various other minor decreases. Research and development expenses include laboratory study expenses, salaries, ongoing prosecution of regulatory applications in the United States and Europe, and consultants' fees. We expect that research and development expenses will increase when we commence new clinical trials of PentaLyte.

From inception (November 30, 1990) through March 31, 2004, we incurred \$16,414,990 of general and administrative expenses. General and administrative expenses increased to \$408,392 for the three months ended March 31, 2004 from \$337,768 for the three months ended March 31, 2003. This increase is chiefly attributable to an increase in printing costs of \$16,632, an increase in general and administrative consulting fees of \$46,706, and an increase in trademark expenses of \$48,924; these increases were somewhat offset by a decrease in legal and accounting fees of \$39,173, as well as several other more minor decreases.

Interest and Other Income

From inception (November 30, 1990) through March 31, 2004, we generated \$2,932,633 of interest and other income. For the three months ended March 31, 2004, we incurred a total of \$1,137,444 of net interest expense, compared to net interest expense of \$205,447 for the three months ended March 31, 2003. In February 2004, we recognized interest expense of \$1,106,392 relative to the excess of the fair value of consideration given to the Participating Debenture Holders over the carrying amount of the debentures at the time of extinguishment on this transaction (See Note 3 to the condensed financial statements).

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Income Taxes

During the three months ended March 31, 2003, we paid Korean withholding taxes of \$82,520 related to the receipt of an upfront license fee from CJ Corp. With respect to Federal and state income taxes, our effective income tax rate differs from the statutory rate due to the 100% valuation allowance established for our deferred tax assets, which relate primarily to net operating loss carryforwards, as realization of such benefits is not deemed to be likely.

Liquidity and Capital Resources

Since inception, we have primarily financed our operations through the sale of equity securities, licensing fees, and borrowings. During January 2004, we completed a subscription rights offer (the Rights Offer) through which we raised gross proceeds of \$3,584,424 through the sale of 2,560,303 common shares and 1,280,073 warrants. Following the completion of the Rights Offer, we raised an additional \$600,000 by selling an additional 428,571 common shares and 214,284 warrants under a Standby Purchase Agreement to certain persons who acted as Guarantors of the Rights Offer. The common shares and warrants were sold as units for \$1.40 per unit. Each unit consisted of one common share and one-half of a warrant. Each full warrant will entitle the holder to purchase one common share for \$2.00 per share and will expire on January 14, 2007. We may redeem the warrants by paying \$.05 per warrant if the closing price of the common shares on the AMEX or any other national securities exchange or the Nasdaq Stock Market exceeds 200% of the exercise price of the warrants for any 20 consecutive trading days.

During February 2004, we eliminated \$3,350,000 of debenture indebtedness by using a portion of the proceeds of the Rights Offer to repay \$1,850,000 of debentures in cash, and by issuing a total of 1,071,428 common shares and 535,712 common share purchase warrants in exchange for \$1,500,000 of debentures held by certain persons who acted as Participating Debenture Holders under the Standby Purchase Agreement. As a result of the cash raised and the conversion of the debentures, we now have positive working capital.

In consideration for their agreement to purchase up to \$2,250,000 of units if the subscription rights were not fully exercised, under the Standby Purchase Agreement we paid the Guarantors \$50,000 in cash and issued to them warrants to purchase 250,000 common shares, and we paid the Participating Debenture Holders \$100,000 in cash and issued to them warrants to purchase 500,000 common shares. The warrants issued to the Guarantors and Participating Debenture Holders have the same terms as the warrants we sold in the Rights Offer. Total estimated costs of the Rights Offer, which were recorded as a reduction of the proceeds received, were \$351,516.

During April 2003, we received the initial \$500,000 license fee payment, less \$80,000 of Korean taxes withheld, from CJ under the CJ Agreement. We paid a finder's fee of \$50,000 from the proceeds. A second installment of \$300,000 will be payable by CJ 30 days after it submits an application for regulatory approval of Hextend in South Korea; we anticipate that this will happen this year.

At March 31, 2004, we had \$2,119,803 of cash on hand. We will need to obtain additional equity capital from time to time in the future, as long as the fees we receive from licensing our products to pharmaceutical companies, profits from sales of our products, and royalty revenues are not sufficient to fund our operations. We need additional capital and greater revenues to continue our current operations, to complete clinical trials of PentaLyte®, and to conduct our planned product development and research programs. Sales of additional equity securities could result in the dilution of the interests of present shareholders. We are also continuing to seek new agreements with pharmaceutical companies to provide us with additional product and technology licensing fees and royalties. The amount of license fees and royalties that may be earned through the licensing and sale of our products and technology, the timing of the receipt of license fee payments, and the future availability and terms of equity financing, are uncertain. The unavailability or inadequacy of financing or revenues to meet future capital needs could force us to modify, curtail, delay or suspend some or all aspects of our planned operations. However, management believes our existing cash, along with license fees receivable and anticipated royalties, is sufficient to allow us to operate through June 30, 2005.

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The following depicts our contractual obligations as of March 31, 2004:

Contractual Obligation	Total	Payments Due by Period	
		Less Than 1 Year	1-3 Years
Operating Leases	\$ 140,352	\$ 140,352	—
Total Contractual Cash Obligations	140,352	140,352	—

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

The Company did not hold any market risk sensitive instruments as of March 31, 2004, December 31, 2003, or March 31, 2003.

Item 4. Controls and Procedures
Evaluation of Disclosure Controls and Procedures

The Company's management, including its principal executive officers and its principal financial officer, have reviewed and evaluated the Company's disclosure controls and procedures as of a date within ninety (90) days of the filing date of this Form 10-Q quarterly report. Following this review and evaluation, management has collectively determined that the Company's disclosure controls and procedures are sufficient to ensure that material information relating to the Company with respect to the period covered by this report was made known to them.

Changes in Internal Controls

There were no significant changes to the Company's internal controls or in other factors that could significantly affect these controls subsequent to the date of the review by the Chief Executive Officers and Chief Financial Officer.

PART II OTHER INFORMATION**Item 2. Changes in Securities, Use of Proceeds and Issuer Purchases of Equity Securities.**

During April 2004, we issued 20,000 common shares to Greenbelt Corp., our financial advisor, as the final installment of common shares issuable to it as compensation under its agreement with us for the 12 months ended March 31, 2004. During March 2004, the board of directors approved the renewal of the engagement of Greenbelt Corp. as our financial advisor for the 12 months ending March 31, 2005 for compensation of \$90,000 in cash and 60,000 common shares. The common shares issued during April 2004 were issued, and the common shares issuable during the next 12 months will be issued, without registration under the Securities Act of 1933, as amended, pursuant to the exemption provided in Section 4(2) and Rule 506 thereunder. Our agreement with Greenbelt requires us to register these shares for sale under the Securities Act of 1933, as amended, upon request.

Item 5. Other Information.

During March 2004, the board of directors approved the renewal of the engagement of Greenbelt Corp. as our financial advisor for the 12 months ending March 31, 2005, as discussed in Item 2 above.

During April 2004, we were awarded a research grant by the National Heart, Lung, and Blood Institute division of the National Institutes of Health (NIH) for use in the development of HetaCool. The grant will be used to fund a project entitled Resuscitating Blood-Substituted

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Hypothermic Dogs at the Texas Heart Institute in Houston under the guidance of Dr. George V. Letsou. Dr. Letsou is Associate Professor of Surgery and Director of the Heart Failure Center at the University of Texas Medical School in Houston, Texas. We

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may receive up to \$299,990 through the grant, including \$149,994 during 2004 and subject to availability of funds and satisfactory progress on the project an additional \$149,996 during 2005.

During surgical procedures for the treatment of certain cardiovascular conditions such as large aneurysms, cardiovascular abnormalities and damaged blood vessels in the brain, surgeons must temporarily interrupt the flow of blood through the body. Interruption of blood flow can be maintained only for short periods of time at normal body temperatures because many critical organs, particularly the brain, are quickly damaged by the resultant loss of oxygen. As a result, certain surgical procedures are performed at low temperatures because lower body temperature helps to minimize the chance of damage to the patient's organs by reducing the patient's metabolic rate, thereby decreasing the patient's needs during surgery for oxygen and nutrients which normally flow through the blood.

Current technology limits the degree to which surgeons can lower a patient's temperature and the amount of time the patient can be maintained at a low body temperature because blood, even when diluted, cannot be circulated through the body at near-freezing temperatures. As a result, surgeons face severe time constraints in performing surgical procedures requiring blood flow interruption, and those time limitations prevent surgeons from correcting certain cardiovascular abnormalities.

The goal of the research project is to use HetaCool to develop techniques for increasing the time during which a patient may be maintained in hypothermic cardiac and circulatory arrest during surgery. In the research project, the body temperature of dogs will be lowered to reduce their metabolic rate and related need for oxygenating red blood cells, while HetaCool will be used to replace the circulating blood to prevent the blockage of small blood vessels caused by the sludging of blood at low temperatures.

Under the terms of the grant the federal government is entitled to use on a royalty free basis any invention developed with government support.

Item 6. Exhibits and Reports of Form 8-K*(a) Exhibits.*

Exhibit Numbers	Description
3.1	Articles of Incorporation, as Amended.
3.2	By-Laws, As Amended.#
4.1	Specimen of Common Share Certificate.+
4.2	Form of Warrant++
4.3	Form of Warrant Agreement between BioTime, Inc. and American Stock Transfer & Trust Company++
10.1	Lease Agreement dated July 1, 1994 between the Registrant and Robert and Norah Brower, relating to principal executive offices of the Registrant.*
10.2	Intellectual Property Agreement between BioTime, Inc. and Hal Sternberg.+
10.3	Intellectual Property Agreement between BioTime, Inc. and Harold Waitz.+
10.4	Intellectual Property Agreement between BioTime, Inc. and Judith Segall.+
10.5	Intellectual Property Agreement between BioTime, Inc. and Steven Seinberg.**
10.6	Agreement between CMSI and BioTime Officers Releasing Employment Agreements, Selling Shares, and Transferring Non-Exclusive License.+
10.7	Agreement for Trans Time, Inc. to Exchange CMSI Common Stock for BioTime, Inc. Common Shares.+
10.8	2002 Stock Option Plan, as amended.##
10.9	Addenda to Lease Agreement between BioTime, Inc. and Donn Logan.
10.10	Exclusive License Agreement between Abbott Laboratories and BioTime, Inc. (Portions of this exhibit have been omitted pursuant to a request for confidential treatment).###

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Exhibit Numbers	Description
10.11	Modification of Exclusive License Agreement between Abbott Laboratories and BioTime, Inc. (Portions of this exhibit have been omitted pursuant to a request for confidential treatment).^++
10.12	Warrant Agreement, dated March 27, 2001, between BioTime, Inc. and Alfred D. Kingsley
10.13	Form of Series 2001-A 10% Debenture due August 1, 2004
10.14	Warrant Agreement between BioTime, Inc. and Purchasers of Series 2001-A Debentures
10.15	Warrant Agreement, dated March 27, 2002, between BioTime, Inc. and Alfred D. Kingsley**
10.16	Warrant for the Purchase of Common Shares, dated August 12, 2002, issued to Ladenburg Thalmann & Co. Inc.***
10.17	Exclusive License Agreement between BioTime, Inc. and CJ Corp.****
10.18	Warrant Agreement, dated April 9, 2003, between BioTime, Inc. and certain holders of Series 2001-A Debentures****
10.19	Addendum to Lease, dated March 12, 2004, between BioTime, Inc. as lessee, and Donn Logan and Marcy Li Wong as lessor
31	Rule 13a-14(a)/15d-14(a) Certification
32	Section 1350 Certification

Incorporated by reference to BioTime s Form 10-K for the fiscal year ended June 30, 1998.

- + Incorporated by reference to Registration Statement on Form S-1, File Number 33-44549 filed with the Securities and Exchange Commission on December 18, 1991, and Amendment No. 1 and Amendment No. 2 thereto filed with the Securities and Exchange Commission on February 6, 1992 and March 7, 1992, respectively.
- # Incorporated by reference to Registration Statement on Form S-1, File Number 33-48717 and Post-Effective Amendment No. 1 thereto filed with the Securities and Exchange Commission on June 22, 1992, and August 27, 1992, respectively.
- ++ Incorporated by reference to Registration Statement on Form S-2, File Number 333-109442, filed with the Securities and Exchange Commission on October 3, 2003, and Amendment No. 1 thereto filed with the Securities and Exchange Commission on November 13, 2003.
- * Incorporated by reference to BioTime s Form 10-K for the fiscal year ended June 30, 1994.
- ^ Incorporated by reference to BioTime s Form 10-Q for the quarter ended March 31, 1997.
- ## Incorporated by reference to Registration Statement on Form S-8, File Number 333-101651 filed with the Securities and Exchange Commission on December 4, 2002.
- ^+ Incorporated by reference to BioTime s Form 10-Q for the quarter ended March 31, 1999.
- ### Incorporated by reference to BioTime s Form 8-K, filed April 24, 1997.
- ^++ Incorporated by reference to BioTime s Form 10-Q for the quarter ended June 30, 1999.
- Incorporated by reference to BioTime s Form 10-K for the year ended December 31, 1999.
- Incorporated by reference to the Company s Form 10-K for the year ended December 31, 2000.
- Incorporated by reference to BioTime s Form 10-Q for the quarter ended June 30, 2001.
- ** Incorporated by reference to BioTime s Form 10-K for the year ended December 31, 2001.
- *** Incorporated by reference to BioTime s Form 10-Q for the quarter ended June 30, 2002.
- **** Incorporated by reference to BioTime s Form 10-K/ A-1 for the year ended December 31, 2002.

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Incorporated by reference to BioTime's Form 10-K for the year ended December 31, 2003

Filed herewith

(b) *Reports on Form 8-K*

The Company did not file any reports on Form 8-K during the quarter ended March 31, 2004.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BIOTIME, INC.

Date: May 14, 2004

/s/ JUDITH SEGALL

Judith Segall
Vice-President Operations
*Member, Office of the President**

Date: May 14, 2004

/s/ HAL STERNBERG

Hal Sternberg
Vice-President Research
*Member, Office of the President**

Date: May 14, 2004

/s/ HAROLD WAITZ

Harold Waitz
Vice-President Regulatory Affairs
*Member, Office of the President**

Date: May 14, 2004

/s/ STEVEN SEINBERG

Steven Seinberg
Chief Financial Officer

* The Office of the President is comprised of the three above-referenced executive officers of the Company who collectively exercise the powers of the Chief Executive Officer.

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10.9	Addenda to Lease Agreement between BioTime, Inc. and Donn Logan.
10.10	Exclusive License Agreement between Abbott Laboratories and BioTime, Inc. (Portions of this exhibit have been omitted pursuant to a request for confidential treatment).###
10.11	Modification of Exclusive License Agreement between Abbott Laboratories and BioTime, Inc. (Portions of this exhibit have been omitted pursuant to a request for confidential treatment).^++
10.12	Warrant Agreement, dated March 27, 2001, between BioTime, Inc. and Alfred D. Kingsley
10.13	Form of Series 2001-A 10% Debenture due August 1, 2004
10.14	Warrant Agreement between BioTime, Inc. and Purchasers of Series 2001-A Debentures
10.15	Warrant Agreement, dated March 27, 2002, between BioTime, Inc. and Alfred D. Kingsley**
10.16	Warrant for the Purchase of Common Shares, dated August 12, 2002, issued to Ladenburg Thalmann & Co. Inc.***
10.17	Exclusive License Agreement between BioTime, Inc. and CJ Corp.****
10.18	Warrant Agreement, dated April 9, 2003, between BioTime, Inc. and certain holders of Series 2001-A Debentures*****
10.19	Addendum to Lease, dated March 12, 2004, between BioTime, Inc. as lessee, and Donn Logan and Marcy Li Wong as lessor
31	Rule 13a-14(a)/15d-14(a) Certification
32	Section 1350 Certification

Incorporated by reference to BioTime's Form 10-K for the fiscal year ended June 30, 1998.

+ Incorporated by reference to Registration Statement on Form S-1, File Number 33-44549 filed with the Securities and Exchange Commission on December 18, 1991, and Amendment No. 1 and Amendment No. 2 thereto filed with the Securities and Exchange Commission on February 6, 1992 and March 7, 1992, respectively.

Incorporated by reference to Registration Statement on Form S-1, File Number 33-48717 and Post-Effective Amendment No. 1 thereto filed with the Securities and Exchange Commission on June 22, 1992, and August 27, 1992, respectively.

++ Incorporated by reference to Registration Statement on Form S-2, File Number 333-109442, filed with the Securities and Exchange Commission on October 3, 2003, and Amendment No. 1 thereto filed with the Securities and Exchange Commission on November 13, 2003.

Table of Contents

- * Incorporated by reference to BioTime s Form 10-K for the fiscal year ended June 30, 1994.
- ^ Incorporated by reference to BioTime s Form 10-Q for the quarter ended March 31, 1997.
- ## Incorporated by reference to Registration Statement on Form S-8, File Number 333-101651 filed with the Securities and Exchange Commission on December 4, 2002.
- ^+ Incorporated by reference to BioTime s Form 10-Q for the quarter ended March 31, 1999.
- ### Incorporated by reference to BioTime s Form 8-K, filed April 24, 1997.
- ^++ Incorporated by reference to BioTime s Form 10-Q for the quarter ended June 30, 1999.
- Incorporated by reference to BioTime s Form 10-K for the year ended December 31, 1999.
- Incorporated by reference to the Company s Form 10-K for the year ended December 31, 2000.
- Incorporated by reference to BioTime s Form 10-Q for the quarter ended June 30, 2001.
- ** Incorporated by reference to BioTime s Form 10-K for the year ended December 31, 2001.
- *** Incorporated by reference to BioTime s Form 10-Q for the quarter ended June 30, 2002.
- **** Incorporated by reference to BioTime s Form 10-K/ A-1 for the year ended December 31, 2002.
- Incorporated by reference to BioTime s Form 10-K for the year ended December 31, 2003
- Filed herewith