

MICROMET, INC.
Form 424B5
November 12, 2010

Filed Pursuant to Rule 424(b)(5)
Registration Nos. 333-162541 and 333-170537

PROSPECTUS SUPPLEMENT
To Prospectus dated November 2, 2009

9,900,000 Shares

MICROMET, INC.

Common Stock

Micromet, Inc. is offering 9,900,000 shares
The last reported sale price of our common stock on November 10, 2010 was \$8.00 per share
Trading symbol: NASDAQ Global Market MITI

This investment involves risk. See Risk Factors beginning on page S-3 in this prospectus supplement.

The underwriter has agreed to purchase 9,900,000 shares of our common stock from us at a price of \$7.15 per share, which will result in approximately \$70.5 million of net proceeds to us (after estimated offering expenses). The underwriter has a 30-day option to purchase up to 1,485,000 additional shares of our common stock from us at a price of \$7.15 per share to cover over-allotments, if any.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement and the accompanying prospectus are truthful or complete. Any representation to the contrary is a criminal offense.

Piper Jaffray

Prospectus Supplement dated November 11, 2010.

TABLE OF CONTENTS

TABLE OF CONTENTS

Prospectus Supplement

	Page
<u>Prospectus Supplement Summary</u>	<u>S-1</u>
<u>Risk Factors</u>	<u>S-3</u>
<u>Forward-Looking Statements</u>	<u>S-4</u>
<u>Use of Proceeds</u>	<u>S-5</u>
<u>Dilution</u>	<u>S-5</u>
<u>Underwriting</u>	<u>S-7</u>
<u>Legal Matters</u>	<u>S-9</u>
<u>Experts</u>	<u>S-9</u>
<u>Where You Can Find More Information</u>	<u>S-10</u>

Prospectus

	Page
<u>About this Prospectus</u>	<u>ii</u>
<u>Summary</u>	<u>1</u>
<u>Risk Factors</u>	<u>6</u>
<u>Special Note Regarding Forward-Looking Statements</u>	<u>6</u>
<u>Financial Ratios</u>	<u>7</u>
<u>Use of Proceeds</u>	<u>7</u>
<u>Description of Capital Stock</u>	<u>8</u>
<u>Description of Debt Securities</u>	<u>14</u>
<u>Description of Warrants</u>	<u>21</u>
<u>Description of Units</u>	<u>26</u>
<u>Legal Ownership of Securities</u>	<u>28</u>
<u>Plan of Distribution</u>	<u>31</u>
<u>Legal Matters</u>	<u>33</u>
<u>Experts</u>	<u>33</u>
<u>Where You Can Find More Information</u>	<u>33</u>
<u>Incorporation by Reference</u>	<u>33</u>
<u>Disclosure of Commission Position on Indemnification for Securities Act Liability</u>	<u>34</u>

This prospectus incorporates by reference important information. You may obtain the information incorporated by reference without charge by following the instructions under Where You Can Find More Information appearing below before deciding to invest in our shares.

This document is in two parts. The first part is this prospectus supplement, which describes the terms of this offering of common stock and related matters. The second part is the accompanying prospectus, which gives more general information, some of which may not apply to this offering of common stock. To the extent the information contained in this prospectus supplement differs or varies from the information contained in the accompanying prospectus or any document incorporated by reference, the information in this prospectus supplement shall control.

All references in this prospectus supplement and the accompanying prospectus to Micromet, the Company, we, us, our, or similar references refer to Micromet, Inc. and its subsidiaries, except where the context otherwise requires or as otherwise indicated.

TABLE OF CONTENTS

You should rely only on the information contained or incorporated by reference in this prospectus supplement, the accompanying prospectus and any free-writing prospectus that we authorize to be distributed to you. We have not, and the underwriter has not, authorized anyone to provide you with different information. This prospectus supplement and the accompanying prospectus are not an offer to sell, nor are they seeking an offer to buy, these securities in any state where the offer or sale is not permitted. The information in this prospectus supplement and the accompanying prospectus is complete and accurate as of the date the information is presented, but the information may have changed since that date.

We have received or applied for trademark registration of and/or claim trademark rights, including in the following marks that appear in this prospectus: Micromet, Inc., the Micromet logo and BiTE®. All other trademarks, trade names and service marks appearing in this prospectus supplement and the accompanying prospectus are the property of their respective owners.

iii

TABLE OF CONTENTS

PROSPECTUS SUPPLEMENT SUMMARY

The following summary is qualified in its entirety by, and should be read together with, the more detailed information and financial statements and related notes thereto appearing elsewhere or incorporated by reference in this prospectus supplement and the accompanying prospectus. Before you decide to invest in our common stock, you should read the entire prospectus supplement and the accompanying prospectus carefully, including the risk factors and the financial statements and related notes incorporated by reference in this prospectus supplement and the accompanying prospectus.

Overview

We are a biopharmaceutical company focused on the discovery, development and commercialization of innovative antibody-based therapies for the treatment of cancer. Our product development pipeline includes novel antibodies generated with our proprietary BiTE® antibody platform, as well as conventional monoclonal antibodies. BiTE antibodies represent a new class of antibodies that activate the T cells of a patient's immune system to eliminate cancer cells. T cells are considered the most powerful killer cells of the human immune system. Five of our antibodies are currently in clinical trials, while the remainder of our product pipeline is in preclinical development.

Corporate Information

We were incorporated in Delaware in 1998 under the name CancerVax Corporation and completed our initial public offering in 2003. In 2006, we completed a merger with Micromet AG, a privately-held German company, and changed our corporate name to Micromet, Inc. Our principal executive offices are located at 6707 Democracy Blvd., Suite 505, Bethesda, Maryland 20817, and our main telephone number is (240) 752-1420. Our Internet website is <http://www.micromet.com>. We do not incorporate by reference into this prospectus supplement or the accompanying prospectus the information on, or accessible through, our website, and you should not consider it as part of this prospectus supplement or the accompanying prospectus.

S-1

TABLE OF CONTENTS

THE OFFERING

Common stock offered by Micromet	9,900,000 shares
Common stock to be outstanding immediately after this offering	90,899,320 shares
Initial offering price per share to the public:	\$7.30

Over-allotment option

The underwriter has a 30-day option to purchase up to 1,485,000 additional shares of common stock from Micromet, Inc. to cover over-allotments, if any.

Use of proceeds

We intend to use the net proceeds from this offering primarily for general corporate purposes, which may include research and development, capital expenditures, working capital and general and administrative expenses. See the section titled Use of Proceeds.

Risk factors

You should read the Risk Factors section of this prospectus supplement and in the documents incorporated by reference in this prospectus supplement for a discussion of factors to consider before deciding to purchase shares of our common stock.

Nasdaq Global Market Symbol

MITI

Unless otherwise indicated, the information in this prospectus supplement assumes no exercise of the underwriter's over-allotment option to purchase 1,485,000 additional shares of our common stock.

The number of shares of common stock that will be outstanding immediately after this offering is based on 80,999,320 shares of common stock outstanding as of November 9, 2010 and excludes:

8,058,878 shares of common stock issuable upon the exercise of outstanding warrants as of November 9, 2010, with a weighted average exercise price of \$3.87 per share;

12,068,029 shares of common stock issuable upon the exercise of outstanding options as of November 9, 2010, with a weighted average exercise price of \$4.74 per share; and

554,145 shares of common stock reserved for future issuance under our stock-based compensation plans as of November 9, 2010, consisting of 316,902 shares of common stock reserved for issuance under our 2003 Amended and Restated Equity Incentive Plan, 2,424 shares of common stock reserved for issuance under our 2006 Equity Incentive Award Plan and 234,819 shares of common stock reserved for issuance under our Employee Stock Purchase Plan.

S-2

TABLE OF CONTENTS

RISK FACTORS

An investment in our common stock involves a high degree of risk. You should carefully consider the risks described under "Risk Factors" in Part II, Item 1A of our Quarterly Report on Form 10-Q for the quarter ended September 30, 2010, as well as all of the other information contained in this prospectus supplement and the accompanying prospectus, and incorporated by reference into this prospectus supplement and the accompanying prospectus, including our financial statements and related notes, before investing in our common stock. If any of the possible events described in those sections actually occur, our business, business prospects, cash flow, results of operations or financial condition could be harmed. In this case, the trading price of our common stock could decline, and you might lose all or part of your investment in our common stock. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also impair our operations. In addition to the foregoing, risks related to this offering include the following:

Management will have broad discretion as to the use of the proceeds from this offering, and we may not use the proceeds effectively.

We have not designated any portion of the net proceeds from this offering to be used for any particular purpose. Accordingly, our management will have broad discretion as to the application of the net proceeds from this offering, and could spend the proceeds in ways that do not necessarily improve our operating results or enhance the value of our common stock.

You will experience immediate dilution in the book value per share of the common stock you purchase.

Because the price per share of our common stock being offered is substantially higher than the book value per share of our common stock, you will suffer substantial dilution in the net tangible book value of the common stock you purchase in this offering. After giving effect to the sale by us of 9,900,000 shares of common stock in this offering, and based on the public offering price of \$7.30 per share in this offering and a pro forma net tangible book value per share of our common stock of \$2.00 as of September 30, 2010, if you purchase shares of common stock in this offering, you will suffer immediate and substantial dilution of \$5.30 per share in the net tangible book value of the common stock. If the underwriter exercises its option, you will experience additional dilution. See "Dilution" on page S-5 for a more detailed discussion of the dilution you will incur in connection with this offering.

S-3

TABLE OF CONTENTS

FORWARD-LOOKING STATEMENTS

This prospectus supplement and the accompanying prospectus, including the documents that we incorporate by reference herein and therein, contain forward-looking statements within the meaning of Section 27A of the Securities

Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. These forward-looking statements can generally be identified as such because the context of the statement will include words such as may, will, intends, plans, believes, anticipates, expects, estimates, predicts, potential, or opportunity, the negative of these words or words of similar import. Similarly, statements that describe our future plans, strategies, intentions, expectations, objectives, goals or prospects are also forward-looking statements.

Discussions containing these forward-looking statements may be found, among other places, in the Business and Management's Discussion and Analysis of Financial Condition and Results of Operations sections incorporated by reference from our most recent Annual Report on Form 10-K, as well as any amendments thereto reflected in subsequent filings with the SEC. These forward-looking statements are based largely on our expectations and projections about future events and future trends affecting our business, and are subject to risks and uncertainties that could cause actual results to differ materially from those anticipated in the forward-looking statements. The risks and uncertainties include, among others, those noted in Risk Factors above and those included in the documents that we incorporate by reference herein.

In addition, past financial and/or operating performance is not necessarily a reliable indicator of future performance and you should not use our historical performance to anticipate results or future period trends. We can give no assurances that any of the events anticipated by the forward-looking statements will occur or, if any of them do, what impact they will have on our results of operations and financial condition. Except as required by law, we undertake no obligation to publicly revise our forward-looking statements to reflect events or circumstances that arise after the filing of this prospectus supplement or the filing of the accompanying prospectus or documents incorporated by reference herein and therein that include forward-looking statements.

S-4

TABLE OF CONTENTS

USE OF PROCEEDS

We estimate that the net proceeds from the sale of the shares of our common stock in this offering will be approximately \$70.5 million, or approximately \$81.1 million if the underwriter exercises in full its over-allotment option to purchase 1,485,000 additional shares of common stock, in each case after deducting estimated offering expenses payable by us.

We intend to use the net proceeds from this offering primarily for general corporate purposes, which may include research and development, capital expenditures, working capital and general and administrative expenses. In addition, we may use a portion of the proceeds to acquire drugs or drug candidates, technologies, businesses or other assets. The timing and amount of our actual expenditures will be based on many factors, including the timing and success of our clinical trials, whether we partner any of our development programs, and whether we choose to curtail some of our research activities. We will retain broad discretion in determining how we will allocate the net proceeds from this offering.

Pending their use, we plan to invest the net proceeds of this offering in short-term, interest-bearing, investment-grade securities.

DILUTION

If you purchase our common stock in this offering, your ownership interest will be diluted to the extent of the difference between the public offering price per share and the pro forma net tangible book value per share of our common stock after this offering. Net tangible book value per share is determined by dividing the number of outstanding shares of our common stock into our total tangible assets (total assets less intangible assets) less total liabilities. As of September 30, 2010, we had a historical net tangible book value of our common stock of approximately \$111.3 million, or approximately \$1.37 per share.

Investors participating in this offering will incur immediate, substantial dilution. After giving effect to the sale of common stock offered in this offering at an assumed public offering price of \$7.30 per share, after deducting underwriting discounts and commissions and estimated offering expenses payable by us, our net tangible book value as of September 30, 2010 would have been approximately \$181.8 million, or approximately \$2.00 per share of common stock. This represents an immediate increase in net tangible book value of approximately \$0.63 per share to existing stockholders, and an immediate dilution of approximately \$5.30 per share to investors participating in this offering.

The following table illustrates this per share dilution:

Assumed public offering price per share		\$ 7.30
Historical net tangible book value per share as of September 30, 2010	\$ 1.37	
Increase in net tangible book value per share after this offering	0.63	
Net tangible book value per share after this offering		2.00
Dilution per share to investors participating in this offering		\$ 5.30

If the underwriter exercises in full its option to purchase 1,485,000 additional shares of common stock at an assumed public offering price of \$7.30 per share, after deducting underwriting discounts and commissions and estimated offering expenses payable by us, our net tangible book value as of September 30, 2010 would have been

approximately \$192.4 million, or approximately \$2.08 per share of common stock. This represents an immediate increase in net tangible book value of approximately \$0.71 per share to existing stockholders, and an immediate dilution of approximately \$5.22 per share to investors participating in this offering.

The above discussion and tables also assume no exercise of any outstanding warrants or stock options. As of September 30, 2010, there were:

8,058,878 shares of common stock issuable upon the exercise of outstanding warrants, with a weighted average exercise price of \$3.87 per share;

12,069,202 shares of common stock issuable upon the exercise of outstanding options, with a weighted average exercise price of \$4.74 per share; and

S-5

TABLE OF CONTENTS

553,729 shares of common stock reserved for future issuance under our stock-based compensation plans, consisting of 316,486 shares of common stock reserved for issuance under our 2003 Amended and Restated Equity Incentive Plan, 2,424 shares of common stock reserved for issuance under our 2006 Equity Incentive Award Plan and 234,819 shares of common stock reserved for issuance under our Employee Stock Purchase Plan.

To the extent that any of these warrants or options are exercised, new options or other rights to acquire shares of our common stock are issued under our benefit plans or we issue additional shares of common stock in the future, there will be further dilution to investors participating in this offering.

S-6

TABLE OF CONTENTS

UNDERWRITING

The underwriter named below has agreed to buy, subject to the terms of the purchase agreement, the number of shares listed opposite its name below. The underwriter is committed to purchase and pay for all of the shares if any are purchased.

Underwriter	Number of Shares
Piper Jaffray & Co.	9,900,000

The underwriter is offering the shares of our common stock, when, as and if issued to and accepted by it, subject to approval of legal matters by its counsel, including the validity of the common stock and other conditions contained in the underwriting agreement, such as the receipt by the underwriter of officers' certificates and legal opinions. The underwriter initially offered the shares to the public at \$7.30 per share. The underwriter reserves the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

We have agreed to indemnify the underwriter against certain liabilities, including civil liabilities under the Securities Act of 1933, as amended, or to contribute to payments that the underwriter may be required to make in respect of those liabilities.

We have granted to the underwriter an option to purchase up to an additional 1,485,000 shares of common stock from us at the price per share set forth below. The underwriter may exercise this option any time during the 30-day period after the date of this prospectus, but only to cover over-allotments, if any.

The underwriter has agreed to purchase the shares of our common stock from us at a price of \$7.15 per share, which will result in proceeds to us, after deducting estimated offering expenses, of approximately \$70.5 million assuming no exercise of the over-allotment option granted to the underwriter, and approximately \$81.1 million assuming full exercise of the over-allotment option. The underwriter proposes to offer the shares of our common stock from time to time for sale in one or more transactions in the over-the-counter market, through negotiated transactions or otherwise at market prices prevailing at the time of sale, at prices related to prevailing market prices or negotiated prices, subject to receipt and acceptance by it and subject to its right to reject any order in whole or in part. The underwriter may effect such transactions by selling shares of our common stock to or through dealers, and such dealers may receive compensation in the form of discounts, concessions or commissions from the underwriter and/or purchaser of shares of our common stock for whom it may act as agent or to whom it may sell as principal.

We estimate that the total fees and expenses payable by us will be approximately \$300,000.

We and each of our directors and executive officers have agreed to certain restrictions on our ability to sell additional shares of our common stock for a period of 60 days after the date of this prospectus supplement. We have agreed not to directly or indirectly offer for sale, sell, contract to sell, grant any option for the sale of, or otherwise issue or dispose of, any shares of common stock, options or warrants to acquire shares of common stock, or any related security or instrument, without the prior written consent of Piper Jaffray & Co. The lock-up agreements provide exceptions for (1) sales to the underwriter pursuant to the purchase agreement, (2) our sales in connection with the exercise of options granted and the granting of options to purchase additional shares under our existing stock option plans, (3) sales under any trading plan under Rule 10b5-1 of the Securities Exchange Act of 1934, as amended, (4) transfers to others as gifts or for bona fide estate or tax planning purposes, subject to certain requirements, including that the transferee be subject to the same lock-up terms, and (5) certain other exceptions. Additionally, certain of our

directors and officers may sell shares of our common stock where the proceeds are used to repay certain specified margin calls.

The 60-day lock-up period in all of the lock-up agreements is subject to extension if (i) during the last 17 days of the lock-up period we issue an earnings release or material news or a material event relating to us occurs or (ii) prior to the expiration of the lock-up period, we announce that we will release earnings results during the 16-day period beginning on the last day of the lock-up period, in which case the

S-7

TABLE OF CONTENTS

restrictions imposed in these lock-up agreements shall continue to apply until the expiration of the 18-day period beginning on the issuance of the earnings release or the occurrence of the material news or material event, unless the underwriter waives the extension in writing.

To facilitate the offering, the underwriter may engage in transactions that stabilize, maintain or otherwise affect the price of the common stock during and after the offering. Specifically, the underwriter may over-allot or otherwise create a short position in the common stock for its own account by selling more shares of common stock than have been sold to it by us. The underwriter may elect to cover any such short position by purchasing shares of common stock in the open market or by exercising the over-allotment option granted to the underwriter. In addition, the underwriter may stabilize or maintain the price of the common stock by bidding for or purchasing shares of common stock in the open market and may impose penalty bids. If penalty bids are imposed, selling concessions allowed to other broker-dealers participating in the offering are reclaimed if shares of common stock previously distributed in the offering are repurchased, whether in connection with stabilization transactions or otherwise. The effect of these transactions may be to stabilize or maintain the market price of the common stock at a level above that which might otherwise prevail in the open market. The imposition of a penalty bid may also affect the price of the common stock to the extent that it discourages resales of the common stock. The magnitude or effect of any stabilization or other transactions is uncertain. These transactions may be effected on the Nasdaq Global Market or otherwise and, if commenced, may be discontinued at any time.

In connection with this offering, the underwriter may also engage in passive market making transactions in the common stock on the Nasdaq Global Market. Passive market making consists of displaying bids on the Nasdaq Global Market limited by the prices of independent market makers and effecting purchases limited by those prices in response to order flow. Rule 103 of Regulation M promulgated by the SEC limits the amount of net purchases that each passive market maker may make and the displayed size of each bid. Passive market making may stabilize the market price of the common stock at a level above that which might otherwise prevail in the open market and, if commenced, may be discontinued at any time.

This prospectus supplement in electronic format may be made available on the web site maintained by the underwriter and the underwriter may distribute prospectuses and prospectus supplements electronically.

From time to time in the ordinary course of its business, Piper Jaffray & Co. and certain of its affiliates may in the future engage in commercial banking or investment banking transactions with us and our affiliates.

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company. The transfer agent and registrar's address is 59 Maiden Lane, Plaza Level, New York, NY 10038.

Notice to Prospective Investors in the United Kingdom

This prospectus supplement and the accompanying prospectus are only being distributed to, and are only directed at, (i) persons outside the United Kingdom or (ii) persons in the United Kingdom that are qualified investors within the meaning of Article 2(1)(e) of the Prospectus Directive that are also (i) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the Order) or (ii) high net worth entities, and other persons to whom it may lawfully be communicated, falling within Article 49(2)(a) to (d) of the Order (all such persons together being referred to as relevant persons). This prospectus supplement and the accompanying prospectus and their contents are confidential and should not be distributed, published or reproduced (in whole or in part) or disclosed by recipients to any other persons in the United Kingdom. Any person in the United Kingdom that is not a relevant person should not act or rely on this document or any of its contents. For purposes of

this provision, the expression Prospectus Directive means Directive 2003/71/EC and includes any relevant implementing measure in the United Kingdom.

S-8

TABLE OF CONTENTS

LEGAL MATTERS

Cooley LLP will pass upon the validity of the common stock being offered by this prospectus supplement. The underwriter is being represented by Goodwin Procter LLP, New York, New York.

EXPERTS

The consolidated financial statements of Micromet, Inc. at December 31, 2009 and 2008 and for the years then ended appearing in Micromet, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2009, and the effectiveness of Micromet, Inc.'s internal control over financial reporting as of December 31, 2009, have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated by reference in this prospectus supplement and the accompanying prospectus. The consolidated financial statements of Micromet, Inc. for the year ended December 31, 2007 appearing in Micromet, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2009, have been audited by Ernst & Young GmbH WPG, independent registered public accounting firm, formerly known as Ernst & Young AG and Ernst & Young Deutsche Allgemeine Treuhand AG WPG, as set forth in their report thereon, included therein, and incorporated by reference in this prospectus supplement and the accompanying prospectus. Such consolidated financial statements have been incorporated herein and therein by reference in reliance upon such reports given on the authority of such firms as experts in accounting and auditing.

S-9

TABLE OF CONTENTS

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-3 under the Securities Act with respect to the shares of common stock we are offering under this prospectus supplement. This prospectus supplement and the accompanying prospectus do not contain all of the information set forth in the registration statements and the exhibits to the registration statements. For further information with respect to us and the securities we are offering under this prospectus supplement, we refer you to the registration statements and the exhibits and schedules filed as a part of the registration statements. Statements contained in this prospectus supplement as to the contents of any contract or any other document referred to are not necessarily complete, and in each instance, we refer you to the copy of the contract or other document filed as an exhibit to the registration statements. Each of these statements is qualified in all respects by this reference. We also file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy the registration statement, as well as any other material we file with the SEC, at the SEC's Public Reference Room at 100 F Street, NE, Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information on the Public Reference Room. The SEC maintains an Internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC, including Micromet. The SEC's Internet site can be found at <http://www.sec.gov>.

Our Internet address is www.micromet.com. We make available free of charge, on or through the investor relations section of our website, annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. The information found on our website is not part of this prospectus supplement or any other report we file with or furnish to the SEC.

The SEC allows us to incorporate by reference into this prospectus supplement the information we file with it, which means that we can disclose important information to you by referring you to those documents. Information incorporated by reference is part of this prospectus supplement. Later information filed with the SEC will update and supersede this information.

We incorporate by reference the documents listed below and any future filings made with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act until this offering is completed:

our Annual Report on Form 10-K for the year ended December 31, 2009, filed with the SEC on March 5, 2010, as amended by Form 10-K/A filed with the SEC on July 20, 2010;

the information specifically incorporated by reference into our Annual Report on Form 10-K for the fiscal year ended December 31, 2009 from our definitive proxy statement on Schedule 14A (other than information furnished rather than filed) with the SEC on April 30, 2010, as supplemented by definitive additional materials filed with the SEC on June 14, 2010;

our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2010, filed with the SEC on May 5, 2010, June 30, 2010, filed with the SEC on August 6, 2010, and September 30, 2010, filed with the SEC on November 9, 2010;

our Current Reports on Form 8-K (other than information furnished rather than filed) filed with the SEC on February 5, 2010, March 9, 2010, March 12, 2010, March 29, 2010, April 16, 2010, May 10, 2010 and June 25, 2010;

the description of our common stock, which is registered under Section 12 of the Exchange Act, in our registration statement on Form 8-A, filed with the SEC on October 24, 2003, including any amendments or reports filed for the purpose of updating such description; and

the description of our Series A Junior Participating Preferred Stock Purchase Rights (the Rights) contained in our registration statement on Form 8-A registering the Rights under Section 12 of the Exchange Act, filed with the SEC on November 12, 2004, including any amendments or reports filed for the purpose of updating that description.

TABLE OF CONTENTS

You may request a copy of these filings, at no cost, by contacting us at:

Micromet, Inc.
Attention: Investor Relations
6707 Democracy Blvd., Suite 505
Bethesda, MD 20817
Telephone number: (240) 752-1420

In accordance with Rule 412 of the Securities Act, any statement contained in a document incorporated by reference herein shall be deemed modified or superseded to the extent that a statement contained herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement.

S-11

TABLE OF CONTENTS

PROSPECTUS

\$150,000,000

**Common Stock, Preferred Stock,
Debt Securities,
Warrants, Subscription Rights
and Units**

From time to time, we may offer up to \$150,000,000 of any combination of the securities described in this prospectus, either individually or in units. We may also offer common stock or preferred stock upon conversion of debt securities; common stock upon conversion of preferred stock; common stock, preferred stock or debt securities upon the exercise of warrants; or common stock, preferred stock or debt securities upon the exercise of subscription rights.

This prospectus provides a general description of the securities we may offer. Each time we sell securities, we will provide specific terms of the securities offered in a supplement to this prospectus. We may also authorize one or more free writing prospectuses to be provided to you in connection with these offerings. The prospectus supplement and any related free writing prospectus may also add, update or change information contained in this prospectus. You should carefully read this prospectus, the applicable prospectus supplement and any related free writing prospectus, as well as any documents incorporated by reference, before you invest in any of the securities being offered.

This prospectus may not be used to consummate a sale of any securities unless accompanied by a prospectus supplement.

Our common stock is traded on the Nasdaq Global Market under the symbol MITI. On October 14, 2009, the last reported sales price of our common stock was \$5.97 per share. The applicable prospectus supplement will contain information, where applicable, as to any other listing on the Nasdaq Global Market or any securities market or other exchange of the securities, if any, covered by the prospectus supplement.

We will sell these securities directly to investors, through agents designated from time to time or to or through underwriters or dealers, on a continuous or delayed basis. For additional information on the methods of sale, you should refer to the section entitled Plan of Distribution in this prospectus. If any agents or underwriters are involved in the sale of any securities with respect to which this prospectus is being delivered, the names of such agents or underwriters and any applicable fees, commissions, discounts or over-allotment options will be set forth in a prospectus supplement. The price to the public of such securities and the net proceeds we expect to receive from such sale will also be set forth in a prospectus supplement.

Investing in our securities involves a high degree of risk. You should review carefully the risks and uncertainties described under the heading Risk Factors contained in the applicable prospectus supplement and any related

free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR DETERMINED IF THIS PROSPECTUS IS TRUTHFUL OR COMPLETE. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is November 2, 2009.

TABLE OF CONTENTS

TABLE OF CONTENTS

<u>ABOUT THIS PROSPECTUS</u>	ii
<u>SUMMARY</u>	1
<u>RISK FACTORS</u>	6
<u>SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS</u>	6
<u>FINANCIAL RATIOS</u>	7
<u>USE OF PROCEEDS</u>	7
<u>DESCRIPTION OF CAPITAL STOCK</u>	8
<u>DESCRIPTION OF DEBT SECURITIES</u>	14
<u>DESCRIPTION OF WARRANTS</u>	21
<u>DESCRIPTION OF SUBSCRIPTION RIGHTS</u>	24
<u>DESCRIPTION OF UNITS</u>	26
<u>LEGAL OWNERSHIP OF SECURITIES</u>	28
<u>PLAN OF DISTRIBUTION</u>	31
<u>LEGAL MATTERS</u>	33
<u>EXPERTS</u>	33
<u>WHERE YOU CAN FIND MORE INFORMATION</u>	33
<u>INCORPORATION BY REFERENCE</u>	33
<u>DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION FOR SECURITIES</u>	34
<u>ACT LIABILITY</u>	

i

TABLE OF CONTENTS

ABOUT THIS PROSPECTUS

This prospectus is a part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission, or SEC, utilizing a shelf registration process. Under this shelf registration process, we may sell any combination of the securities described in this prospectus in one or more offerings up to a total dollar amount of \$150,000,000. This prospectus provides you with a general description of the securities we may offer. Each time we sell securities under this prospectus, we will provide a prospectus supplement that will contain specific information about the terms of that offering. We may also authorize one or more free writing prospectuses to be provided to you that may contain material information relating to these offerings. The prospectus supplement and any related free writing prospectus that we may authorize to be provided to you may also add, update or change information contained in this prospectus or in any documents that we have incorporated by reference into this prospectus. You should read this prospectus, any applicable prospectus supplement and any related free writing prospectus, together with the information incorporated herein by reference as described under the heading *Where You Can Find More Information*, before investing in any of the securities offered.

THIS PROSPECTUS MAY NOT BE USED TO CONSUMMATE A SALE OF SECURITIES UNLESS IT IS ACCOMPANIED BY A PROSPECTUS SUPPLEMENT.

You should rely only on the information that we have provided or incorporated by reference in this prospectus, any applicable prospectus supplement and any related free writing prospectus that we may authorize to be provided to you. We have not authorized any dealer, salesman or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus, any applicable prospectus supplement or any related free writing prospectus that we may authorize to be provided to you. You must not rely upon any information or representation not contained or incorporated by reference in this prospectus, any applicable prospectus supplement or any related free writing prospectus. This prospectus, any applicable supplement to this prospectus or any related free writing prospectus do not constitute an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate, nor do this prospectus, any applicable supplement to this prospectus or any related free writing prospectus constitute an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. You should not assume that the information contained in this prospectus, any applicable prospectus supplement or any related free writing prospectus is accurate on any date subsequent to the date set forth on the front of the document or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus, any applicable prospectus supplement or any related free writing prospectus is delivered, or securities are sold, on a later date.

This prospectus contains summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated by reference as exhibits to the registration statement of which this prospectus is a part, and you may obtain copies of those documents as described below under the heading *Where You Can Find Additional Information*.

TABLE OF CONTENTS

SUMMARY

This summary highlights selected information from this prospectus and does not contain all of the information that you need to consider in making your investment decision. You should carefully read the entire prospectus, the applicable prospectus supplement and any related free writing prospectus, including the risks of investing in our securities discussed under the heading "Risk Factors" contained in the applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. You should also carefully read the information incorporated by reference into this prospectus, including our financial statements, and the exhibits to the registration statement of which this prospectus is a part.

Unless the context indicates otherwise, as used in this prospectus, the terms "Micromet," "the Company," "we," "us" and "our" refer to Micromet, Inc., a Delaware corporation, and its subsidiaries. We use Micromet®, BiTE®, and the Micromet logo as trademarks in the United States and other countries. All other trademarks or trade names referred to in this prospectus are the property of their respective owners.

Our Company

We are a biopharmaceutical company developing novel, proprietary antibodies for the treatment of cancer, inflammation and autoimmune diseases. Our product development pipeline includes novel antibodies generated with our proprietary BiTE® antibody platform, as well as conventional monoclonal antibodies. BiTE antibodies represent a new class of antibodies that activate the T cells of a patient's immune system to eliminate cancer cells. T cells are considered the most powerful "killer cells" of the human immune system. Five of our antibodies are currently in clinical trials, while the remainder of our product pipeline is in preclinical development. Our BiTE antibody blinatumomab, also known as MT103, is being evaluated in a phase 2 clinical trial for the treatment of patients with acute lymphoblastic leukemia, or ALL, and in a phase 1 clinical trial for the treatment of patients with non-Hodgkin's lymphoma, or NHL. A second BiTE antibody, MT110, is being tested in a phase 1 clinical trial for the treatment of patients with solid tumors. MT110 binds to the epithelial cell adhesion molecule, or EpCAM, which is overexpressed in many solid tumors. Our human monoclonal antibody adecatumumab, also known as MT201, also binds to EpCAM and is being developed under a collaboration with Merck Serono. The current clinical development of this antibody includes a phase 2 clinical trial in colorectal carcinoma patients after complete resection of liver metastases, and a phase 1b clinical trial evaluating adecatumumab in combination with docetaxel for the treatment of patients with metastatic breast cancer. Our monoclonal antibody MT293, also known as TRC093, is licensed to TRACON Pharmaceuticals, Inc. and is being developed in a phase 1 clinical trial for the treatment of patients with cancer. MT203, a human antibody neutralizing the activity of granulocyte/macrophage colony stimulating factor, or GM-CSF, which has potential applications in the treatment of various inflammatory and autoimmune diseases, such as rheumatoid arthritis, psoriasis, or multiple sclerosis, is under development in a phase 1 clinical trial being conducted by our collaboration partner Nycomed. Our licensee Morphotek, a wholly-owned subsidiary of Eisai, has licensed MT228, our glycolipid-binding human antibody for the treatment of cancer.

To date, we have incurred significant research and development expenses and have not achieved any revenues from sales of our product candidates. Each of our programs will require a number of years and significant costs to advance through development. Typically, it takes many years from the initial identification of a lead compound to the completion of preclinical and clinical trials, before applying for marketing approval from the United States Food and Drug Administration, or FDA, or European Medicines Agency, or EMEA, or equivalent regulatory agencies in other countries and regions. The risk that a program has to be terminated, in part or in full, for safety reasons or lack of adequate efficacy is very high. In particular, we cannot predict which, if any, product candidates can be successfully

developed and for which marketing approval may be obtained, or the time and cost to complete development.

1

TABLE OF CONTENTS

As we obtain results from preclinical studies or clinical trials, we may elect to discontinue the development of one or more product candidates for safety, efficacy or commercial reasons. We may also elect to discontinue or delay development of one or more product candidates in order to focus our resources on more promising product candidates.

Our business strategy includes entering into collaborative agreements with third parties for the development and commercialization of our product candidates. Depending on the structure of such collaborative agreements, a third party may be granted control over the clinical trial process for one of our product candidates. In such a situation, the third party, rather than us, may in fact control development and commercialization decisions for the respective product candidate. Consistent with our business model, we may enter into new collaboration agreements in the future. We cannot predict the terms of such agreements or their potential impact on our capital requirements. Our inability to complete our research and development projects in a timely manner, or our failure to enter into new collaborative agreements, when appropriate, could significantly increase our capital requirements and affect our liquidity.

Since our inception, we have financed our operations through private placements of preferred stock, government grants for research, research-contribution revenues from our collaborations with pharmaceutical companies, debt financing, licensing revenues and milestone achievements and, more recently, private placements and public offerings of common stock, in some cases including associated warrants. We intend to continue to seek funding through public or private financings in the future. If we are successful in raising additional funds through the issuance of equity securities, stockholders may experience substantial dilution, or the equity securities may have rights, preferences or privileges senior to existing stockholders. If we are successful in raising additional funds through debt financings, these financings may involve significant cash payment obligations and covenants that restrict our ability to operate our business. There can be no assurance that we will be successful in raising additional capital on acceptable terms, or at all.

We were incorporated in Delaware in 1998 under the name CancerVax Corporation. In May 2006, we changed our corporate name to Micromet, Inc. Our principal executive offices are located at 6707 Democracy Blvd., Suite 505, Bethesda, Maryland 20817, and our main telephone number is (240) 752-1420. Our website is located on the world wide web at <http://www.micromet-inc.com>. We do not incorporate by reference into this prospectus the information on, or accessible through, our website, and you should not consider it as part of this prospectus.

The Securities We May Offer

We may offer shares of our common stock and preferred stock, various series of debt securities, warrants to purchase any of such securities and subscription rights to acquire our common stock, preferred stock or debt securities, either individually or in units, with a total value of up to \$150,000,000 from time to time under this prospectus, together with any applicable prospectus supplement and any related free writing prospectus, at prices and on terms to be determined at the time of the offering. This prospectus provides you with a general description of the securities we may offer. Each time we offer a type or series of securities under this prospectus, we will provide a prospectus supplement that will describe the specific amounts, prices and other important terms of the securities, including, to the extent applicable:

- designation or classification;
- aggregate principal amount or aggregate offering price;
- maturity, if applicable;
- original issue discount, if any;
- rates and times of payment of interest or dividends, if any;
- redemption, conversion, exchange or sinking fund terms, if any;

conversion or exchange prices or rates, if any, and, if applicable, any provisions for changes to or adjustments in the conversion or exchange prices or rates and in the securities or other property receivable upon conversion or exchange;

2

TABLE OF CONTENTS

ranking;
restrictive covenants, if any;
voting or other rights, if any; and
material United States federal income tax considerations.

The prospectus supplement and any related free writing prospectus that we may authorize to be provided to you may also add, update or change information contained in this prospectus or in documents we have incorporated by reference. However, no prospectus supplement or free writing prospectus will offer a security that is not registered and described in this prospectus at the time of the effectiveness of the registration statement of which this prospectus is a part.

This prospectus may not be used to consummate a sale of securities unless it is accomplished by a prospectus supplement.

We may sell the securities directly to investors or through underwriters, dealers or agents. We, and our underwriters or agents, reserve the right to accept or reject all or part of any proposed purchase of securities. If we do offer securities through underwriters or agents, we will include in the applicable prospectus supplement:

the names of those underwriters or agents;
applicable fees, discounts and commissions to be paid to them;
details regarding over-allotment options, if any; and
the estimated net proceeds to us.

Common Stock. We may issue shares of our common stock from time to time. The holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of stockholders and do not have cumulative voting rights. Subject to preferences that may be applicable to any outstanding shares of preferred stock, the holders of our common stock are entitled to receive ratably such dividends as may be declared by our board of directors out of legally available funds. Upon our liquidation, dissolution or winding up, holders of our common stock are entitled to share ratably in all assets remaining after payment of liabilities and the liquidation preferences of any then outstanding shares of preferred stock. Our common stock does not carry any preemptive rights enabling a holder to subscribe for, or receive shares of, any class of our common stock or any other securities convertible into shares of any class of our common stock, or any redemption rights.

Preferred Stock. We may issue shares of our preferred stock from time to time, in one or more series. Under our certificate of incorporation, our board of directors has the authority to designate up to 10,000,000 shares of preferred stock in one or more series and to determine the designations, voting powers, preferences and rights of each series of the preferred stock, as well as the qualifications, limitations or restrictions thereof, including dividend rights, conversion rights, preemptive rights, terms of redemption or repurchase, liquidation preferences, sinking fund terms and the number of shares constituting any series or the designation of any series, any or all of which may be greater than the rights of the common stock. Convertible preferred stock will be convertible into our common stock or exchangeable for our other securities. Conversion may be mandatory or at the holder's option and would be at prescribed conversion rates.

To date, our board of directors has designated 75,000 of the 10,000,000 authorized shares of preferred stock as Series A Junior Participating Preferred Stock. The preferred stock is described in greater detail in this prospectus under Description of Capital Stock Preferred Stock.

If we sell any series of preferred stock under this prospectus, we will fix the designations, voting powers, preferences and rights of such series of preferred stock, as well as the qualifications, limitations or restrictions thereof, in the certificate of designation relating to that series. We will file as an exhibit to the registration statement of which this

prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of any certificate of designation that describes the terms of the series

3

TABLE OF CONTENTS

of preferred stock that we are offering before the issuance of the related series of preferred stock. We urge you to read the applicable prospectus supplement (and any free writing prospectus that we may authorize to be provided to you) related to the series of preferred stock being offered, as well as the complete certificate of designation that contains the terms of the applicable series of preferred stock.

Debt Securities. We may issue debt securities from time to time, in one or more series, as either senior or subordinated debt or as senior or subordinated convertible debt. The senior debt securities will rank equally with any other unsecured and unsubordinated debt. The subordinated debt securities will be subordinate and junior in right of payment, to the extent and in the manner described in the instrument governing the debt, to all of our senior indebtedness. Convertible debt securities will be convertible into or exchangeable for our common stock or preferred stock. Conversion may be mandatory or at the holder's option and would be at prescribed conversion rates.

The debt securities will be issued under one or more documents called indentures, which are contracts between us and a national banking association or other eligible party, as trustee. In this prospectus, we have summarized certain general features of the debt securities. We urge you, however, to read the applicable prospectus supplement (and any free writing prospectus that we may authorize to be provided to you) related to the series of debt securities being offered, as well as the complete indentures that contain the terms of the debt securities. Forms of indentures have been filed as exhibits to the registration statement of which this prospectus is a part, and supplemental indentures and forms of debt securities containing the terms of the debt securities being offered will be filed as exhibits to the registration statement of which this prospectus is a part or will be incorporated by reference from reports that we file with the SEC.

Warrants. We may issue warrants for the purchase of common stock, preferred stock and/or debt securities in one or more series. We may issue warrants independently or together with common stock, preferred stock and/or debt securities, and the warrants may be attached to or separate from these securities. In this prospectus, we have summarized certain general features of the warrants. We urge you, however, to read the applicable prospectus supplement (and any free writing prospectus that we may authorize to be provided to you) related to the particular series of warrants being offered, as well as the complete warrant agreements and warrant certificates that contain the terms of the warrants. Forms of the warrant agreements and forms of warrant certificates containing the terms of the warrants being offered have been filed as exhibits to the registration statement of which this prospectus is a part, and supplemental warrant agreements and forms of warrant certificates will be filed as exhibits to the registration statement of which this prospectus is a part or will be incorporated by reference from reports that we file with the SEC.

We will evidence each series of warrants by warrant certificates that we will issue. Warrants may be issued under an applicable warrant agreement that we enter into with a warrant agent. We will indicate the name and address of the warrant agent, if applicable, in the prospectus supplement relating to the particular series of warrants being offered.

Subscription Rights. We may issue subscription rights for the purchase of common stock, preferred stock and/or debt securities in one or more series. We may issue subscription rights independently or together with common stock, preferred stock and/or debt securities, and the subscription rights may or may not be transferable. In this prospectus, we have summarized certain general features of the subscription rights. We urge you, however, to read the applicable prospectus supplement (and any free writing prospectus that we may authorize to be provided to you) related to the particular subscription rights being offered, as well as the complete subscription rights agreements and subscription rights certificates that contain the terms of the subscription rights.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of subscription rights agreement and any supplemental agreements

that describe the terms of the subscription rights we are offering before the issuance of the related rights.

4

TABLE OF CONTENTS

We may evidence each subscription right by subscription rights certificates that we will issue. Subscription rights may be issued under a subscription rights agreement that we enter into with a subscription rights agent. We will indicate the name and address of the subscription rights agent, if applicable, in the prospectus supplement relating to the particular subscription rights being offered.

In connection with any offering of subscription rights, we may enter into a standby underwriting agreement with one or more underwriters pursuant to which the underwriter will purchase and distribute some or all of the securities that remain unsubscribed upon completion of the offering. We may also enter into a standby purchase agreement with one or more purchasers pursuant to which the purchaser will purchase some or all of the securities that remain unsubscribed upon completion of the offering.

Units. We may issue, in one or more series, units consisting of common stock, preferred stock, debt securities, subscription rights and/or warrants for the purchase of common stock, preferred stock and/or debt securities in any combination. In this prospectus, we have summarized certain general features of the units. We urge you, however, to read the applicable prospectus supplement (and any free writing prospectus that we may authorize to be provided to you) related to the series of units being offered, as well as the complete unit agreement that contains the terms of the units. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of unit agreement and any supplemental agreements that describe the terms of the series of units we are offering before the issuance of the related series of units.

We may evidence each series of units by unit certificates that we will issue, if applicable. Units may be issued under a unit agreement that we enter into with a unit agent. We will indicate the name and address of the unit agent, if applicable, in the prospectus supplement relating to the particular series of units being offered.

TABLE OF CONTENTS

RISK FACTORS

Investing in our securities involves a high degree of risk. You should carefully review the risks and uncertainties described under the heading "Risk Factors" contained in the applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus, before deciding whether to purchase any of the securities being registered pursuant to the registration statement of which this prospectus is a part. Each of the risk factors could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our securities, and the occurrence of any of these risks might cause you to lose all or part of your investment. Additional risks not presently known to us or that we currently believe are immaterial may also significantly impair our business operations.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference contain forward-looking statements. These are based on our management's current beliefs, expectations and assumptions about future events, conditions and results and on information currently available to us. Discussions containing these forward-looking statements may be found, among other places, in the Sections entitled "Business," "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" incorporated by reference from our most recent Annual Report on Form 10-K and in our Quarterly Reports on Form 10-Q, as well as any amendments thereto, filed with the SEC.

Any statements in this prospectus, or incorporated herein, about our expectations, beliefs, plans, objectives, assumptions or future events or performance are not historical facts and are forward-looking statements. Within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Exchange Act, these forward-looking statements include, but are not limited to, statements regarding the efficacy, safety and intended utilization of our product candidates, the development of our BITE antibody technology, the conduct, timing and results of future clinical trials, the availability of financing, plans regarding regulatory filings and future research and plans regarding partnering activities. You can identify these forward-looking statements by the use of words or phrases such as "believe," "may," "could," "will," "possible," "can," "estimate," "continue," "ongoing," "intend," "seek," "plan," "expect," "deem," "should," "would" or "assume" or the negative of these terms, or other terminology, although not all forward-looking statements contain these words. Among the factors that could cause actual results to differ materially from those indicated in the forward-looking statements are risks and uncertainties inherent in our business including, without limitation, the progress, timing and success of our clinical trials; difficulties or delays in development, testing, obtaining regulatory approval for producing and marketing our product candidates; regulatory developments in the United States or in foreign countries; the risks associated with our reliance on collaborations for the development and commercialization of our product candidates; unexpected adverse side effects or inadequate therapeutic efficacy of our product candidates that could delay or prevent product development or commercialization, or that could result in recalls or product liability claims; our ability to attract and retain key scientific, management or commercial personnel; the loss of key scientific, management or commercial personnel; the size and growth potential of the potential markets for our product candidates and our ability to serve those markets; the scope and validity of patent protection for our product candidates; our ability to establish and maintain strategic collaborations or to otherwise obtain additional financing to support our operations; competition from other pharmaceutical or biotechnology companies; successful administration of our business and financial reporting capabilities; and the other risks discussed in our Annual Report on Form 10-K for the year ended December 31, 2008, filed with the SEC on March 16, 2009, and our Quarterly Report on Form 10-Q for the quarter ended June 30, 2009,

filed with the SEC on August 6, 2009, as well as Risk Factors sections of future filings made under the Exchange Act following the date of this prospectus. Given these risks, uncertainties and other factors, many of which are beyond our control, you should not place undue reliance on these forward-looking statements.

Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to revise any forward-looking statements to reflect events or developments occurring after the date of this prospectus, even if new information becomes available in the future.

TABLE OF CONTENTS**FINANCIAL RATIOS**

Our earnings were insufficient to cover fixed charges for each of the periods presented. Accordingly, the following table sets forth the deficiency of earnings available to cover fixed charges for each of the periods presented in the table below. Because of the deficiency, ratio information is not applicable. Amounts shown are in thousands.

	Year Ended December 31,					Six Months Ended June 30, 2009
	2004	2005	2006	2007	2008	
Deficiency of earnings available to cover fixed charges	\$(21,932)	\$(9,717)	\$(33,571)	\$(25,237)	\$(26,066)	\$(7,649)

For purposes of computing the deficiency of earnings available to cover fixed charges, fixed charges represent interest expense and the portion of rent expense that is considered by us to be representative of interest. Deficiency of earnings available to cover fixed charges is the sum of our loss from continuing operations before income taxes, plus fixed charges.

USE OF PROCEEDS

We will retain broad discretion over the use of the net proceeds from the sale of the securities offered hereby. Except as described in any applicable prospectus supplement or in any free writing prospectuses that we may authorize to be provided to you in connection with a specific offering, we currently intend to use the net proceeds from the sale of the securities offered hereby for general corporate purposes, which may include research and development, capital expenditures, working capital and general and administrative expenses. We may also use a portion of the net proceeds to invest in or acquire businesses or technologies that we believe are complementary to our own, although we have no current plans, commitments or agreements with respect to any acquisitions as of the date of this prospectus. We will set forth in the applicable prospectus supplement or free writing prospectus our intended use for the net proceeds received from the sale of any securities sold pursuant to the prospectus supplement or free writing prospectus. Pending these uses, we intend to invest the net proceeds in investment-grade, interest bearing securities.

TABLE OF CONTENTS

DESCRIPTION OF CAPITAL STOCK

As of the date of this prospectus, our certificate of incorporation authorizes us to issue 150,000,000 shares of common stock, par value \$0.00004 per share, and 10,000,000 shares of preferred stock, par value \$0.00004 per share. As of October 9, 2009, 68,932,064 shares of common stock were outstanding and no shares of preferred stock were outstanding. Our board of directors has designated 75,000 of the 10,000,000 authorized shares of preferred stock as Series A Junior Participating Preferred Stock, which series is described below under Rights Plan.

The following summary description of our capital stock is based on the provisions of our certificate of incorporation, including the certificate of designation for our Series A Junior Participating Preferred Stock, as well as our bylaws, our stockholder rights plan and the applicable provisions of the Delaware General Corporation Law. This information is qualified entirely by reference to the applicable provisions of our certificate of incorporation, bylaws, stockholder rights plan and the Delaware General Corporation Law. For information on how to obtain copies of our certificate of incorporation, bylaws and stockholder rights plan, which are exhibits to the registration statement of which this prospectus is a part, see Where You Can Find Additional Information.

Common Stock

The holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of stockholders. The holders of our common stock do not have cumulative voting rights in the election of directors. Subject to preferences that may be applicable to any outstanding shares of preferred stock, the holders of common stock are entitled to receive ratably such dividends as may be declared by our board of directors out of legally available funds. Upon our liquidation, dissolution or winding up, holders of our common stock are entitled to share ratably in all assets remaining after payment of liabilities and the liquidation preferences of any outstanding shares of preferred stock. Holders of common stock have no preemptive rights and no right to convert their common stock into any other securities. There are no redemption or sinking fund provisions applicable to our common stock.

Additional shares of authorized common stock may be issued, as authorized by our board of directors from time to time, without stockholder approval, except as may be required by applicable stock exchange requirements.

The rights of the holders of our common stock are subject to, and may be adversely affected by, the rights of holders of shares of any preferred stock that we may designate and issue in the future.

Preferred Stock

Pursuant to our amended and restated certificate of incorporation, or the Restated Certificate, our board of directors has the authority, without further action by the stockholders (unless such stockholder action is required by applicable law or Nasdaq rules), to designate and issue up to 10,000,000 shares of preferred stock in one or more series, to establish from time to time the number of shares to be included in each such series, to fix the designations, powers, preferences, privileges and relative participating, optional or special rights and the qualifications, limitations or restrictions thereof, including dividend rights, conversion rights, voting rights, terms of redemption and liquidation preferences, any or all of which may be greater than the rights of the common stock, and to increase or decrease the number of shares of any such series, but not below the number of shares of such series then outstanding.

The board of directors, without stockholder approval, can issue preferred stock with voting, conversion or other rights that could adversely affect the voting power and other rights of the holders of common stock. Preferred stock could be

issued quickly with terms designed to delay or prevent a change in control of our company or make removal of management more difficult. Additionally, the issuance of preferred stock may have the effect of decreasing the market price of the common stock and may adversely affect the voting power of holders of common stock and reduce the likelihood that common stockholders will receive dividend payments and payments upon liquidation.

Future Preferred Stock. Our board of directors will fix the designations, voting powers, preferences and rights of each series, as well as the qualifications, limitations or restrictions thereof, of the preferred stock

TABLE OF CONTENTS

that we sell under this prospectus and applicable prospectus supplements in the certificate of designation relating to that series. We will file as an exhibit to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of any certificate of designation that describes the terms of the series of preferred stock we are offering before the issuance of that series of preferred stock. This description will include:

the title and stated value;
the number of shares we are offering;
the liquidation preference per share;
the purchase price per share;

the dividend rate per share, dividend period and payment dates and method of calculation for dividends, if applicable; whether dividends will be cumulative or non-cumulative and, if cumulative, the date from which dividends will accumulate;

our right, if any, to defer payment of dividends and the maximum length of any such deferral period;
the procedures for any auction and remarketing, if any;

the provisions for a sinking fund, if any;

the provisions for redemption or repurchase, if applicable, and any restrictions on our ability to exercise those redemption and repurchase rights;

any listing of the preferred stock on any securities exchange or market;

whether the preferred stock will be convertible into our common stock or other securities, and, if applicable, the conversion period, the conversion price, or how it will be calculated, and under what circumstances it may be adjusted;

whether the preferred stock will be exchangeable into debt securities, and, if applicable, the exchange period, the exchange price, or how it will be calculated, and under what circumstances it may be adjusted;

voting rights, if any, of the preferred stock;

preemption rights, if any;

restrictions on transfer, sale or other assignment, if any;

whether interests in the preferred stock will be represented by depositary shares;

a discussion of any material United States federal income tax considerations applicable to the preferred stock;

the relative ranking and preferences of the preferred stock as to dividend rights and rights if we liquidate, dissolve or wind up our affairs;

any limitations on issuances of any class or series of preferred stock ranking senior to or on a parity with the series of preferred stock being issued as to dividend rights and rights if we liquidate, dissolve or wind up our affairs; and

any other specific terms, rights, preferences, privileges, qualifications or restrictions of the preferred stock.

The General Corporation Law of the State of Delaware, the state of our incorporation, provides that the holders of preferred stock will have the right to vote separately as a class (or, in some cases, as a series) on an amendment to our certificate of incorporation if the amendment would change the par value or, unless the certificate of incorporation provided otherwise, the number of authorized shares of the class or

TABLE OF CONTENTS

change the powers, preferences or special rights of the class or series so as to adversely affect the class or series, as the case may be. This right is in addition to any voting rights that may be provided for in the applicable certificate of designation.

Registration Rights

We have entered into a registration rights agreement with Kingsbridge Capital Limited, or Kingsbridge, in connection with the committed equity financing facility, or CEFF, that we entered into with Kingsbridge on December 1, 2008 pursuant to which we agreed to file and keep effective a registration statement under the Securities Act registering the resale of up to 10,104,109 shares of common stock issuable under the CEFF as well as 420,000 shares of common stock issuable upon exercise of warrants issued to Kingsbridge in connection with the CEFF and a prior CEFF.

Antitakeover Effects of Provisions of Charter Documents and Delaware Law

Charter Documents. Our Restated Certificate and Amended and Restated Bylaws, or Bylaws, each as amended to date, include a number of provisions that may have the effect of deterring hostile takeovers or delaying or preventing changes in control or management of our company. First, our board of directors is classified into three classes of directors. Under Delaware law, directors of a corporation with a classified board may be removed only for cause unless the corporation's certificate of incorporation provides otherwise. Our Restated Certificate does not provide otherwise. In addition, the Restated Certificate provides that all stockholder action must be effected at a duly called meeting of stockholders and not by a consent in writing. Further, our Bylaws limit who may call special meetings of the stockholders. Our Restated Certificate does not include a provision for cumulative voting for directors. Under cumulative voting, a minority stockholder holding a sufficient percentage of a class of shares may be able to ensure the election of one or more directors. Finally, our Bylaws establish procedures, including advance notice procedures, with regard to the nomination of candidates for election as directors and stockholder proposals. These and other provisions of our Restated Certificate and Bylaws and Delaware law could discourage potential acquisition proposals and could delay or prevent a change in control or management of our company.

Delaware Takeover Statute. We are subject to Section 203 of the General Corporation Law of the State of Delaware, or DGCL, which regulates acquisitions of some Delaware corporations. Section 203 generally prohibits a publicly held Delaware corporation from engaging in a business combination with an interested stockholder for a period of three years following the date of the transaction in which the person became an interested stockholder, unless:

the board of directors of the corporation approved the business combination or the other transaction in which the person became an interested stockholder prior to the date of the business combination or other transaction; upon consummation of the transaction that resulted in the person becoming an interested stockholder, the person owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding shares owned by persons who are directors and also officers of the corporation and shares issued under employee stock plans under which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or on or subsequent to the date the person became an interested stockholder, the board of directors of the corporation approved the business combination and the stockholders of the corporation authorized the business combination at an annual or special meeting of stockholders by the affirmative vote of at least 66-2/3% of the outstanding stock of the corporation not owned by the interested stockholder.

Section 203 of the DGCL defines a business combination to include any of the following:

any merger or consolidation involving the corporation and the interested stockholder;
any sale, transfer, pledge or other disposition of 10% or more of the corporation's assets or outstanding stock involving the interested stockholder;

10

TABLE OF CONTENTS

subject to exceptions, any transaction that results in the issuance or transfer by the corporation of any of its stock to the interested stockholder;

any transaction involving the corporation that has the effect of increasing the proportionate share of its stock owned by the interested stockholder; or

the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an interested stockholder as any person who, together with the person's affiliates and associates, owns, or within three years prior to the determination of interested stockholder status did own, 15% or more of a corporation's voting stock.

Section 203 of the DGCL could depress our stock price and delay, discourage or prohibit transactions not approved in advance by our board of directors, such as takeover attempts that might otherwise involve the payment to our stockholders of a premium over the market price of our common stock.

Rights Plan

On November 3, 2004, our board of directors adopted a Stockholder Rights Plan, or the Rights Plan. In connection with the Rights Plan, the board of directors declared a dividend of one preferred share purchase right, or Rights, for each outstanding share of our common stock, par value \$0.00004 per share, outstanding at the close of business on November 15, 2004, or the Record Date. Each Right entitles the registered holder thereof, after the Rights become exercisable and until November 15, 2014 (or the earlier redemption, exchange or termination of the Rights), to purchase from us one one-thousandth (1/1000th) of a share of Series A Junior Participating Preferred Stock, par value \$0.00004 per share, at a price of \$95.00 per one one-thousandth (1/1000th) of a share of Series A Junior Participating Preferred Stock, subject to certain anti-dilution adjustments, or the Purchase Price.

Until the earlier to occur of (i) 10 days following a public announcement that a person or group of affiliated or associated persons has acquired, or obtained the right to acquire, beneficial ownership of 15% or more of our common stock (such acquiring person, entity or group of affiliated or associated persons being called an Acquiring Person) or (ii) 10 business days (or such later date as may be determined by action of the board of directors prior to such time as any person or group of affiliated persons becomes an Acquiring Person) following the commencement or announcement of an intention to make a tender offer or exchange offer the consummation of which would result in the beneficial ownership by a person or group of 15% or more of the Common Shares (the earlier of such dates being called the Distribution Date), the Rights will be evidenced, with respect to any of the certificates for common stock outstanding as of the Record Date, by such common stock certificate. The Rights will be transferred with and only with the common stock until the Distribution Date or earlier redemption or expiration of the Rights. As soon as practicable following the Distribution Date, separate certificates evidencing the Rights, or Rights Certificates, will be mailed to holders of record of the common stock as of the close of business on the Distribution Date and such separate Rights Certificates alone will evidence the Rights. The Rights will at no time have any voting rights.

Each share of Series A Junior Participating Preferred Stock purchasable upon exercise of the Rights will be entitled, when, as and if declared, to a minimum preferential quarterly dividend payment of \$1.00 per share but will be entitled to an aggregate dividend of 1,000 times the dividend, if any, declared per share of common stock. In the event of our liquidation, dissolution or winding up, the holders of the shares of Series A Junior Participating Preferred Stock will be entitled to a preferential liquidation payment of \$1,000 per share plus any accrued but unpaid dividends but will be entitled to an aggregate payment of 1,000 times the payment made per share of common stock. Each share of Series A Junior Participating Preferred Stock will have 1,000 votes and will vote together with the outstanding shares of common stock. Finally, in the event of any merger, consolidation or other transaction in which shares of common

stock are exchanged, each share of Series A Junior Participating Preferred Stock will be entitled to receive 1,000 times the amount received per share of common stock. The Series A Junior Participating Preferred Stock will not be redeemable. These rights are protected by customary anti-dilution provisions. Because of the nature of the Series A Junior Participating Preferred Stock's dividend, liquidation and voting rights,

TABLE OF CONTENTS

the value of one one-thousandth of a share of Series A Junior Participating Preferred Stock purchasable upon exercise of each Right should approximate the value of one share of common stock.

In the event that a person becomes an Acquiring Person, or if we are the surviving corporation in a merger with an Acquiring Person or any affiliate or associate of an Acquiring Person and the shares of common stock were not changed or exchanged, each holder of a Right, other than Rights that are or were acquired or beneficially owned by the Acquiring Person (which Rights will thereafter be void), will thereafter have the right to receive upon exercise that number of share of common stock having a market value of two times the then current Purchase Price of one Right. In

the event that, after a person has become an Acquiring Person, we are acquired in a merger or other business combination transaction or more than 50% of its assets or earning power were sold, proper provision shall be made so that each holder of a Right shall thereafter have the right to receive, upon the exercise thereof at the then current Purchase Price of the Right, that number of shares of common stock of the acquiring company which at the time of such transaction would have a market value of two times the then current Purchase Price of one Right.

At any time after a person becomes an Acquiring Person and prior to the earlier of one of the events described in the last sentence in the previous paragraph or the acquisition by such Acquiring Person of 50% or more of the then outstanding shares of common stock, the board of directors may cause us to exchange the Rights (other than Rights owned by an Acquiring Person which have become void), in whole or in part, for shares of common stock at an exchange rate of one common share per Right (subject to adjustment).

The Rights may be redeemed in whole, but not in part, at a price of \$0.01 per Right, or the Redemption Price, by the board of directors at any time prior to the time that an Acquiring Person has become such. The redemption of the Rights may be made effective at such time, on such basis and with such conditions as the board of directors in its sole discretion may establish. Immediately upon any redemption of the Rights, the right to exercise the Rights will terminate and the only right of the holders of Rights will be to receive the Redemption Price.

The Rights will expire on November 15, 2014, unless earlier redeemed, exchanged or terminated. American Stock Transfer & Trust, LLC is the Rights Agent.

The Purchase Price payable, and the number of one one-thousandths of a share of Series A Junior Participating Preferred Stock or other securities or property issuable, upon exercise of the Rights are subject to adjustment from time to time to prevent dilution (i) in the event of a stock dividend on, or a subdivision, combination or reclassification of, the shares of Series A Junior Participating Preferred Stock, (ii) upon the grant to holders of the Series A Junior Participating Preferred Stock of certain rights or warrants to subscribe for or purchase Series A Junior Participating Preferred Stock or convertible securities at less than the current market price of the Series A Junior Participating Preferred Stock or (iii) upon the distribution to holders of the Series A Junior Participating Preferred Stock of evidences of indebtedness, cash, securities or assets (excluding regular periodic cash dividends at a rate not in excess of 125% of the rate of the last regular periodic cash dividend theretofore paid or, in case regular periodic cash dividends have not theretofore been paid, at a rate not in excess of 50% of our average net income per share for the four quarters ended immediately prior to the payment of such dividend, or dividends payable in shares of Series A Junior Participating Preferred Stock (which dividends will be subject to the adjustment described in clause (i) above)) or of subscription rights or warrants (other than those referred to above).

Until a Right is exercised, the holder thereof, as such, will have no rights as a stockholder beyond those as an existing stockholder, including, without limitation, the right to vote or to receive dividends.

Any of the provisions of the Rights Agreement dated as of November 3, 2004 between us and the Rights Agent, or the Rights Agreement, may be amended by the board of directors for so long as the Rights are then redeemable, and after

the Rights are no longer redeemable, we may amend or supplement the Rights Agreement in any manner that does not adversely affect the interests of the holder of the Rights.

TABLE OF CONTENTS

One Right was distributed to stockholders for each share of common stock owned of record by them on November 15, 2004. As long as the Rights are attached to the shares of common stock, we will issue one Right with each new share of common stock so that all such shares will have attached Rights. We have reserved 75,000 shares of Series A Junior Participating Preferred Stock initially for issuance upon exercise of the Rights.

The Rights have certain anti-takeover effects. The Rights are designed to assure that all stockholders receive fair and equal treatment in the event of any proposed takeover of us and to guard against partial tender offers, open market accumulations and other potentially abusive tactics to gain control of us, while not foreclosing a fair acquisition bid. The Rights will cause substantial dilution to a person or group that acquires 15% or more of our stock on terms not approved by the board of directors. The Rights should not interfere with any merger or other business combination approved by the board of directors at any time prior to the first date that a person or group has become an Acquiring Person.

Transfer Agent And Registrar

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, and its address is 6201 15th Street, Brooklyn, NY 11219. The transfer agent for any series of preferred stock that we may offer under this prospectus will be named and described in the prospectus supplement for that series.

Listing on the Nasdaq Global Market

Our common stock is listed on the Nasdaq Global Market under the symbol MITI.

TABLE OF CONTENTS

DESCRIPTION OF DEBT SECURITIES

The following description, together with the additional information we include in any applicable prospectus supplements or free writing prospectuses, summarizes the material terms and provisions of the debt securities that we may offer under this prospectus. We may issue debt securities, in one or more series, as either senior or subordinated debt or as senior or subordinated convertible debt. While the terms we have summarized below will apply generally to any future debt securities we may offer under this prospectus, we will describe the particular terms of any debt securities that we may offer in more detail in the applicable prospectus supplement or related free writing prospectus. The terms of any debt securities we offer under a prospectus supplement may differ from the terms we describe below. However, no prospectus supplement shall fundamentally change the terms that are set forth in this prospectus or offer a security that is not registered and described in this prospectus at the time of its effectiveness. As of the date of this prospectus, we have no outstanding registered debt securities. Unless the context requires otherwise, whenever we refer to the indentures, we also are referring to any supplemental indentures that specify the terms of a particular series of debt securities.

We will issue any senior debt securities under the senior indenture that we will enter into with the trustee named in the senior indenture. We will issue any subordinated debt securities under the subordinated indenture that we will enter into with the trustee named in the subordinated indenture. We have filed forms of these indentures as exhibits to the registration statement of which this prospectus is a part, and supplemental indentures and forms of debt securities containing the terms of the debt securities being offered will be filed as exhibits to the registration statement of which this prospectus is a part or will be incorporated by reference from reports that we file with the SEC.

The indentures will be qualified under the Trust Indenture Act of 1939, as amended, or the Trust Indenture Act. We use the term trustee to refer to either the trustee under the senior indenture or the trustee under the subordinated indenture, as applicable.

The following summaries of material provisions of the senior debt securities, the subordinated debt securities and the indentures are subject to, and qualified in their entirety by reference to, all of the provisions of the indenture applicable to a particular series of debt securities. We urge you to read the applicable prospectus supplements and any related free writing prospectuses related to the debt securities that we may offer under this prospectus, as well as the complete indentures that contains the terms of the debt securities. Except as we may otherwise indicate, the terms of the senior indenture and the subordinated indenture are identical.

General

The terms of each series of debt securities will be established by or pursuant to a resolution of our board of directors and set forth or determined in the manner provided in an officers' certificate or by a supplement indenture. Debt securities may be issued in separate series without limitation as to aggregate principal amount. We may specify a maximum aggregate principal amount for the debt securities of any series. We will describe in the applicable prospectus supplement the terms of the series of debt securities being offered, including:

the title;

the principal amount being offered, and if a series, the total amount authorized and the total amount outstanding;
any limit on the amount that may be issued;

whether or not we will issue the series of debt securities in global form, and, if so, the terms and who the depository will be;

the maturity date;

whether and under what circumstances, if any, we will pay additional amounts on any debt securities held by a person who is not a United States person for tax purposes, and whether we can redeem the debt securities if we have to pay such additional amounts;

14

TABLE OF CONTENTS

the annual interest rate, which may be fixed or variable, or the method for determining the rate and the date interest will begin to accrue, the dates interest will be payable and the regular record dates for interest payment dates or the method for determining such dates;

whether or not the debt securities will be secured or unsecured, and the terms of any secured debt;
the terms of the subordination of any series of subordinated debt;
the place where payments will be payable;
restrictions on transfer, sale or other assignment, if any;

our right, if any, to defer payment of interest and the maximum length of any such deferral period;
the date, if any, after which, and the price at which, we may, at our option, redeem the series of debt securities pursuant to any optional or provisional redemption provisions and the terms of those redemption provisions;
the date, if any, on which, and the price at which we are obligated, pursuant to any mandatory sinking fund or analogous fund provisions or otherwise, to redeem, or at the holder's option, to purchase, the series of debt securities and the currency or currency unit in which the debt securities are payable;

whether the indenture will restrict our ability or the ability of our subsidiaries to:
incur additional indebtedness;
issue additional securities;
create liens;

pay dividends or make distributions in respect of our capital stock or the capital stock of our subsidiaries;
redeem capital stock;

place restrictions on our subsidiaries' ability to pay dividends, make distributions or transfer assets;
make investments or other restricted payments;
sell or otherwise dispose of assets;
enter into sale-leaseback transactions;
engage in transactions with stockholders or affiliates;
issue or sell stock of our subsidiaries; or
effect a consolidation or merger;

whether the indenture will require us to maintain any interest coverage, fixed charge, cash flow-based, asset-based or other financial ratios;

a discussion of any material United States federal income tax considerations applicable to the debt securities;
information describing any book-entry features;
provisions for a sinking fund purchase or other analogous fund, if any;
the applicability of the provisions in the indenture on discharge;

TABLE OF CONTENTS

whether the debt securities are to be offered at a price such that they will be deemed to be offered at an original issue discount as defined in paragraph (a) of Section 1273 of the Internal Revenue Code of 1986, as amended; the denominations in which we will issue the series of debt securities, if other than denominations of \$1,000 and any integral multiple thereof; the currency of payment of debt securities if other than U.S. dollars and the manner of determining the equivalent amount in U.S. dollars; and any other specific terms, preferences, rights or limitations of, or restrictions on, the debt securities, including any additional events of default or covenants provided with respect to the debt securities, and any terms that may be required by us or advisable under applicable laws or regulations.

Conversion or Exchange Rights

We will set forth in the applicable prospectus supplement the terms on which a series of debt securities may be convertible into or exchangeable for our common stock, our preferred stock or other securities. We will include provisions as to whether conversion or exchange is mandatory, at the option of the holder or at our option. We may include provisions pursuant to which the number of shares of our common stock, our preferred stock or other securities that the holders of the series of debt securities receive would be subject to adjustment.

Consolidation, Merger or Sale

Unless we provide otherwise in the prospectus supplement applicable to a particular series of debt securities, the indentures will not contain any covenant that restricts our ability to merge or consolidate, or sell, convey, transfer or otherwise dispose of all or substantially all of our assets. However, any successor to or acquirer of such assets must assume all of our obligations under the indentures or the debt securities, as appropriate. If the debt securities are convertible into or exchangeable for our other securities or securities of other entities, the person with whom we consolidate or merge or to whom we sell all of our property must make provisions for the conversion of the debt securities into securities that the holders of the debt securities would have received if they had converted the debt securities before the consolidation, merger or sale.

Events of Default under the Indenture

Unless we provide otherwise in the prospectus supplement applicable to a particular series of debt securities, the following are events of default under the indentures with respect to any series of debt securities that we may issue:

- if we fail to pay interest when due and payable and our failure continues for 90 days and the time for payment has not been extended;
- if we fail to pay the principal, premium or sinking fund payment, if any, when due and payable at maturity, upon redemption or repurchase or otherwise, and the time for payment has not been extended;
- if we fail to observe or perform any other covenant contained in the debt securities or the indentures, other than a covenant specifically relating to another series of debt securities, and our failure continues for 90 days after we receive notice from the trustee or we or the trustee receive notice from the holders of at least 25% in aggregate principal amount of the outstanding debt securities of the applicable series; and
 - if specified events of bankruptcy, insolvency or reorganization occur.

We will describe in each applicable prospectus supplement any additional events of default relating to the relevant series of debt securities.

If an event of default with respect to debt securities of any series occurs and is continuing, other than an event of default specified in the last bullet point above, the trustee or the holders of at least 25% in

TABLE OF CONTENTS

aggregate principal amount of the outstanding debt securities of that series, by notice to us in writing, and to the trustee if notice is given by such holders, may declare the unpaid principal, premium, if any, and accrued interest, if any, due and payable immediately. If an event of default specified in the last bullet point above occurs with respect to us, the unpaid principal, premium, if any, and accrued interest, if any, of each issue of debt securities then outstanding shall be due and payable without any notice or other action on the part of the trustee or any holder.

The holders of a majority in principal amount of the outstanding debt securities of an affected series may waive any default or event of default with respect to the series and its consequences, except defaults or events of default regarding payment of principal, premium, if any, or interest, unless we have cured the default or event of default in accordance with the indenture. Any waiver shall cure the default or event of default.

Subject to the terms of the indentures, if an event of default under an indenture shall occur and be continuing, the trustee will be under no obligation to exercise any of its rights or powers under such indenture at the request or direction of any of the holders of the applicable series of debt securities, unless such holders have offered the trustee reasonable indemnity or security satisfactory to it against any loss, liability or expense. The holders of a majority in principal amount of the outstanding debt securities of any series will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee, or exercising any trust or power conferred on the trustee, with respect to the debt securities of that series, provided that:

the direction so given by the holder is not in conflict with any law or the applicable indenture; and subject to its duties under the Trust Indenture Act, the trustee need not take any action that might involve it in personal liability or might be unduly prejudicial to the holders not involved in the proceeding.

The indentures provide that if an event of default has occurred and is continuing, the trustee will be required in the exercise of its powers to use the degree of care that a prudent person would use in the conduct of its own affairs. The trustee, however, may refuse to follow any direction that conflicts with law or the indenture, or that the trustee determines is unduly prejudicial to the rights of any other holder of the relevant series of debt securities, or that would involve the trustee in personal liability. Prior to taking any action under the indentures, the trustee will be entitled to indemnification against all costs, expenses and liabilities that would be incurred by taking or not taking such action.

A holder of the debt securities of any series will have the right to institute a proceeding under the indentures or to appoint a receiver or trustee, or to seek other remedies only if:

the holder has given written notice to the trustee of a continuing event of default with respect to that series; the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series have made written request, and such holders have offered reasonable indemnity to the trustee or security satisfactory to it against any loss, liability or expense or to be incurred in compliance with instituting the proceeding as trustee; and the trustee does not institute the proceeding, and does not receive from the holders of a majority in aggregate principal amount of the outstanding debt securities of that series other conflicting directions within 90 days after the notice, request and offer.

These limitations do not apply to a suit instituted by a holder of debt securities if we default in the payment of the principal, premium, if any, or interest on, the debt securities, or other defaults that may be specified in the applicable prospectus supplement.

We will periodically file statements with the trustee regarding our compliance with specified covenants in the indentures.

TABLE OF CONTENTS

The indentures provide that if a default occurs and is continuing and is actually known to a responsible officer of the trustee, the trustee must mail to each holder notice of the default within the earlier of 90 days after it occurs and 30 days after it is known to a responsible officer of the trustee or written notice of it is received by the trustee after it occurs, unless such default has been cured or waived. Except in the case of a default in the payment of principal or premium of or interest on any debt security or certain other defaults specified in an indenture, the trustee shall be protected in withholding such notice if and so long as the board of directors, the executive committee or a trust committee of directors, or responsible officers of the trustee, in good faith determine that withholding notice is in the best interests of holders of the relevant series of debt securities.

Modification of Indenture; Waiver

Subject to the terms of the indenture for any series of debt securities that we may issue, we and the trustee may change an indenture without the consent of any holders with respect to the following specific matters:

- to fix any ambiguity, defect or inconsistency in the indenture;
- to comply with the provisions described above under **Description of Debt Securities Consolidation, Merger or Sale** ;
- to comply with any requirements of the SEC in connection with the qualification of any indenture under the Trust Indenture Act;
- to add to, delete from or revise the conditions, limitations, and restrictions on the authorized amount, terms, or purposes of issue, authentication and delivery of debt securities, as set forth in the indenture;
- to provide for the issuance of and establish the form and terms and conditions of the debt securities of any series as provided under **Description of Debt Securities General**, to establish the form of any certifications required to be furnished pursuant to the terms of the indenture or any series of debt securities, or to add to the rights of the holders of any series of debt securities;
- to evidence and provide for the acceptance of appointment thereunder by a successor trustee;
- to provide for uncertificated debt securities and to make all appropriate changes for such purpose;
- to add to our covenants such new covenants, restrictions, conditions or provisions for the benefit of the holders, to make the occurrence, or the occurrence and the continuance, of a default in any such additional covenants, restrictions, conditions or provisions an event of default or to surrender any right or power conferred to us in the indenture; or
- to change anything that does not adversely affect the interests of any holder of debt securities of any series in any material respect.

In addition, under the indentures, the rights of holders of a series of debt securities may be changed by us and the trustee with the written consent of the holders of at least a majority in aggregate principal amount of the outstanding debt securities of each series that is affected. However, subject to the terms of the indenture for any series of debt securities that we may issue or otherwise provided in the prospectus supplement applicable to a particular series of debt securities, we and the trustee may only make the following changes with the consent of each holder of any outstanding debt securities affected:

- extending the stated maturity of the series of debt securities;
- reducing the principal amount, reducing the rate of or extending the time of payment of interest, or reducing any premium payable upon the redemption or repurchase of any debt securities; or
- reducing the percentage of debt securities, the holders of which are required to consent to any amendment, supplement, modification or waiver.

TABLE OF CONTENTS

Discharge

Each indenture provides that, subject to the terms of the indenture and any limitation otherwise provided in the prospectus supplement applicable to a particular series of debt securities, we can elect to be discharged from our obligations with respect to one or more series of debt securities, except for specified obligations, including obligations to:

register the transfer or exchange of debt securities of the series;
replace stolen, lost or mutilated debt securities of the series;
maintain paying agencies;
hold monies for payment in trust;
recover excess money held by the trustee;
compensate and indemnify the trustee; and
appoint any successor trustee.

In order to exercise our rights to be discharged, we must deposit with the trustee money or government obligations sufficient to pay all the principal of, any premium and interest on, the debt securities of the series on the dates payments are due.

Form, Exchange and Transfer

We will issue the debt securities of each series only in fully registered form without coupons and, unless we otherwise specify in the applicable prospectus supplement, in denominations of \$1,000 and any integral multiple thereof. The indentures provide that we may issue debt securities of a series in temporary or permanent global form and as book-entry securities that will be deposited with, or on behalf of, The Depository Trust Company or another depository named by us and identified in a prospectus supplement with respect to that series. See **Legal Ownership of Securities** below for a further description of the terms relating to any book-entry securities.

At the option of the holder, subject to the terms of the indentures and the limitations applicable to global securities described in the applicable prospectus supplement, the holder of the debt securities of any series can exchange the debt securities for other debt securities of the same series, in any authorized denomination and of like tenor and aggregate principal amount.

Subject to the terms of the indentures and the limitations applicable to global securities set forth in the applicable prospectus supplement, holders of the debt securities may present the debt securities for exchange or for registration of transfer, duly endorsed or with the form of transfer endorsed thereon duly executed if so required by us or the security registrar, at the office of the security registrar or at the office of any transfer agent designated by us for this purpose. Unless otherwise provided in the debt securities that the holder presents for transfer or exchange, we will make no service charge for any registration of transfer or exchange, but we may require payment of any taxes or other governmental charges.

We will name in the applicable prospectus supplement the security registrar, and any transfer agent in addition to the security registrar, that we initially designate for any debt securities. We may at any time designate additional transfer agents or rescind the designation of any transfer agent or approve a change in the office through which any transfer agent acts, except that we will be required to maintain a transfer agent in each place of payment for the debt securities of each series.

If we elect to redeem the debt securities of any series, we will not be required to:

issue, register the transfer of, or exchange any debt securities of that series during a period beginning at the opening of business 15 days before the day of mailing of a notice of redemption of any debt securities that may be selected for redemption and ending at the close of business on the day of the mailing; or register the transfer of or exchange any debt securities so selected for redemption, in whole or in part, except the unredeemed portion of any debt securities we are redeeming in part.

19

TABLE OF CONTENTS

Information Concerning the Trustee

The trustee, other than during the occurrence and continuance of an event of default under an indenture, undertakes to perform only those duties as are specifically set forth in the applicable indenture and is under no obligation to exercise any of the powers given it by the indentures at the request of any holder of debt securities unless it is offered reasonable security and indemnity against the costs, expenses and liabilities that it might incur. However, upon an event of default under an indenture, the trustee must use the same degree of care as a prudent person would exercise or use in the conduct of his or her own affairs.

Payment and Paying Agents

Unless we otherwise indicate in the applicable prospectus supplement, we will make payment of the interest on any debt securities on any interest payment date to the person in whose name the debt securities, or one or more predecessor securities, are registered at the close of business on the regular record date for the interest.

We will pay principal of and any premium and interest on the debt securities of a particular series at the office of the paying agents designated by us, except that unless we otherwise indicate in the applicable prospectus supplement, we will make interest payments by check that we will mail to the holder or by wire transfer to certain holders. Unless we otherwise indicate in the applicable prospectus supplement, we will designate the corporate trust office of the trustee as our sole paying agent for payments with respect to debt securities of each series. We will name in the applicable prospectus supplement any other paying agents that we initially designate for the debt securities of a particular series.

We will maintain a paying agent in each place of payment for the debt securities of a particular series.

All money we pay to a paying agent or the trustee for the payment of the principal of or any premium or interest on any debt securities that remains unclaimed at the end of two years after such principal, premium or interest has become due and payable will be repaid to us, and the holder of the debt security thereafter may look only to us for payment thereof.

Governing Law

The indentures and the debt securities will be governed by and construed in accordance with the laws of the State of New York, except to the extent that the Trust Indenture Act is applicable.

Ranking of Debt Securities

The subordinated debt securities will be unsecured and will be subordinate and junior in priority of payment to certain of our other indebtedness to the extent described in a prospectus supplement. The subordinated indenture does not limit the amount of subordinated debt securities that we may issue. It also does not limit us from issuing any other secured or unsecured debt.

The senior debt securities will be unsecured and will rank equally in right of payment to all our other senior unsecured debt. The senior indenture does not limit the amount of senior debt securities that we may issue. It also does not limit us from issuing any other secured or unsecured debt.

TABLE OF CONTENTS

DESCRIPTION OF WARRANTS

The following description, together with the additional information we may include in any applicable prospectus supplements and free writing prospectuses, summarizes the material terms and provisions of the warrants that we may issue under this prospectus, which may consist of warrants to purchase common stock, preferred stock or debt securities and may be issued in one or more series. Warrants may be issued independently or together with common stock, preferred stock, debt securities or subscription rights offered by any prospectus supplement, and may be attached to or separate from those securities. While the terms we have summarized below will apply generally to any warrants that we may offer under this prospectus, we will describe the particular terms of any series of warrants that we may offer in more detail in the applicable prospectus supplement and any applicable free writing prospectus. The terms of any warrants offered under a prospectus supplement may differ from the terms described below. However, no prospectus supplement will fundamentally change the terms that are set forth in this prospectus or offer a security that is not registered and described in this prospectus at the time of its effectiveness.

We have filed forms of the warrant agreements and forms of warrant certificates containing the terms of the warrants being offered as exhibits to the registration statement of which this prospectus is a part. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of warrant agreement, if any, including a form of warrant certificate, that describes the terms of the particular series of warrants we are offering before the issuance of the related series of warrants. The following summaries of material provisions of the warrants and the warrant agreements are subject to, and qualified in their entirety by reference to, all the provisions of the warrant agreement and warrant certificate applicable to the particular series of warrants that we may offer under this prospectus. We urge you to read the applicable prospectus supplements related to the particular series of warrants that we may offer under this prospectus, as well as any related free writing prospectuses, and the complete warrant agreements and warrant certificates that contain the terms of the warrants.

General

We will describe in the applicable prospectus supplement the terms relating to a series of warrants being offered, including:

the offering price and aggregate number of warrants offered;
the currency for which the warrants may be purchased;

if applicable, the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security or each principal amount of such security;

if applicable, the date on and after which the warrants and the related securities will be separately transferable; in the case of warrants to purchase debt securities, the principal amount of debt securities purchasable upon exercise of one warrant and the price at which, and currency in which, this principal amount of debt securities may be purchased upon such exercise;

in the case of warrants to purchase common stock or preferred stock, the number of shares of common stock or preferred stock, as the case may be, purchasable upon the exercise of one warrant and the price at which, and the currency in which, these shares may be purchased upon such exercise;

the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreements and the warrants;

the terms of any rights to redeem or call the warrants;

any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants;

TABLE OF CONTENTS

the dates on which the right to exercise the warrants will commence and expire;
the manner in which the warrant agreements and warrants may be modified;
a discussion of any material United States federal income tax consequences of holding or exercising the warrants;
the terms of the securities issuable upon exercise of the warrants; and
any other specific terms, preferences, rights or limitations of or restrictions on the warrants.
Before exercising their warrants, holders of warrants will not have any of the rights of holders of the securities purchasable upon such exercise, including:

in the case of warrants to purchase debt securities, the right to receive payments of principal of, or premium, if any, or interest on, the debt securities purchasable upon exercise or to enforce covenants in the applicable indenture; or
in the case of warrants to purchase common stock or preferred stock, the right to receive dividends, if any, or, payments upon our liquidation, dissolution or winding up or to exercise voting rights, if any.

Exercise of Warrants

Each warrant will entitle the holder to purchase the securities that we specify in the applicable prospectus supplement at the exercise price that we describe in the applicable prospectus supplement, which, in the case of warrants to purchase common stock or preferred stock, will not be less than the par value per share of such stock. Unless we otherwise specify in the applicable prospectus supplement, holders of the warrants may exercise the warrants at any time up to the specified time on the expiration date that we set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants will become void.

Holders of the warrants may exercise the warrants by delivering the warrant certificate representing the warrants to be exercised together with specified information, and paying the required amount to the warrant agent in immediately available funds, as provided in the applicable prospectus supplement. We will set forth on the reverse side of the warrant certificate and in the applicable prospectus supplement the information that the holder of the warrant will be required to deliver to the warrant agent.

Upon receipt of the required payment and the warrant certificate properly completed and duly executed at the corporate trust office of the warrant agent or any other office indicated in the applicable prospectus supplement, we will issue and deliver the securities purchasable upon such exercise. If fewer than all of the warrants represented by the warrant certificate are exercised, then we will issue a new warrant certificate for the remaining amount of warrants. If we so indicate in the applicable prospectus supplement, holders of the warrants may surrender securities as all or part of the exercise price for warrants.

Governing Law

Unless we provide otherwise in the applicable prospectus supplement, the warrants and warrant agreements will be governed by and construed in accordance with the laws of the State of New York.

Enforceability of Rights by Holders of Warrants

Each warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank or trust company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility in case of any default by us under the applicable warrant agreement or warrant, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the

consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, its warrants.

TABLE OF CONTENTS

Outstanding Warrants

As of October 9, 2009, there were outstanding warrants to purchase 8,222,416 shares of our common stock, of which 23,000 have an exercise price of at least \$32.34 per share, 55,316 have an exercise price of at least \$12.07 per share, 555,556 have an exercise price of \$5.00 per share, 2,823,585 have an exercise price of \$4.63 per share, 135,000 have an exercise price of \$4.44 per share, 285,000 have an exercise price of \$3.21 per share, and 4,344,959 have an exercise price of \$3.09 per share. Certain of the outstanding warrants may be exercised for cash or on a cashless basis, in which case we will deliver, upon exercise, the number of shares with respect to which the warrant is being exercised reduced by a number of shares having a value equal to the aggregate exercise price of the shares with respect to which the warrant is being exercised.

TABLE OF CONTENTS

DESCRIPTION OF SUBSCRIPTION RIGHTS

The following description, together with the additional information we may include in any applicable prospectus supplements and free writing prospectuses, summarizes the material terms and provisions of the subscription rights that we may offer under this prospectus, which may consist of subscription rights to purchase common stock, preferred stock or debt securities. Subscription rights may be issued independently or together with common stock, preferred stock, debt securities or warrants offered by any prospectus supplement, and may be attached to or separate from those securities. While the terms we have summarized below will apply generally to any subscription rights that we may offer under this prospectus, we will describe the particular terms of any subscription rights in more detail in the applicable prospectus supplement and any applicable free writing prospectus. The terms of any subscription rights offered under a prospectus supplement may differ from the terms described below. However, no prospectus supplement will fundamentally change the terms that are set forth in this prospectus or offer a security that is not registered and described in this prospectus at the time of its effectiveness.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from a current report on Form 8-K that we file with the SEC, the form of subscription rights agreement, including a form of subscription rights certificate, that describes the terms of the subscription rights we are offering, and any supplemental agreements, before the issuance of the related rights. The following summaries of material terms and provisions of the subscription rights are subject to, and qualified in their entirety by reference to, all the provisions of the subscription rights agreement and subscription rights certificate and any supplemental agreements applicable to particular subscription rights that we may offer under this prospectus. We urge you to read the applicable prospectus supplements related to the particular subscription rights that we sell under this prospectus, as well as any related free writing prospectuses, and the complete subscription rights agreement and subscription rights certificates and any supplemental agreements that contain the terms of the subscription rights.

General

We may issue subscription rights to purchase our common stock, preferred stock or debt securities. These subscription rights may be issued independently or together with any other security offered by this prospectus and may or may not be transferable by the recipient of the subscription rights. In connection with any offering of subscription rights, we may enter into a standby underwriting agreement with one or more underwriters pursuant to which the underwriter will purchase and distribute any securities that remain unsubscribed upon completion of the rights offering. We may also enter into a standby purchase agreement with one or more purchasers pursuant to which the purchaser will purchase some or all of the securities that remain unsubscribed upon completion of the offering. Holders of subscription rights to purchase common stock or preferred stock will not be entitled, by virtue of being such holders, to vote, consent or receive notice as holders of our outstanding stock in respect of any meeting of holders of our shares for the election of our directors or any other matter, or to exercise any other rights whatsoever as holders of our shares, or to receive any distributions, if any, on our shares, unless and until they have properly exercised the subscription rights and acquired the common stock or preferred stock thereunder.

We will describe in the applicable prospectus supplement relating to the offering of any subscription rights the terms of the offered subscription rights, including, where applicable, the following:

- the price, if any, for the subscription rights;
- the exercise price payable for the securities upon the exercise of the subscription rights;
- the number of subscription rights issued to each stockholder;

the number and terms of the common stock, preferred stock or debt securities which may be purchased per each subscription right;

the extent to which the subscription rights are transferable;

any provisions for adjustment of the number or amount of securities receivable upon exercise of the subscription rights or the exercise price of the subscription rights;

24

TABLE OF CONTENTS

any other terms of the subscription rights, including terms, procedures and limitations relating to the exchange and exercise of the subscription rights;
the date on which the right to exercise the subscription rights will commence and the date on which the right will expire;
the extent to which the subscription rights include an over-subscription privilege with respect to unsubscribed securities; and
the material terms of any standby underwriting arrangement or standby purchase agreement entered into by us in connection with the subscription rights offering.

Exercise of Subscription Rights

Each subscription right will entitle the holder to purchase the securities that we specify in the applicable prospectus supplement at the exercise price that we describe in the applicable prospectus supplement. Unless we otherwise specify in the applicable prospectus supplement, holders of the subscription rights may exercise the rights at any time up to the specified time on the expiration date that we set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised subscription rights will become void.

Holders of the subscription rights may exercise the rights by delivering the subscription rights certificate representing the subscription rights to be exercised together with specified information, and paying the required amount to the subscription rights agent in immediately available funds, as provided in the applicable prospectus supplement. We will set forth on the reverse side of the subscription rights certificate and in the applicable prospectus supplement the information that the holder of the rights will be required to deliver to the subscription rights agent.

Upon receipt of the required payment and the subscription rights certificate properly completed and duly executed at the corporate trust office of the subscription rights agent or any other office indicated in the applicable prospectus supplement, we will issue and deliver the securities purchasable upon such exercise. If fewer than all of the subscription rights represented by the subscription rights certificate are exercised, then we will issue a new subscription rights certificate for the remaining amount of subscription rights. If we so indicate in the applicable prospectus supplement, holders of the subscription rights may surrender securities as all or part of the exercise price for subscription rights.

Governing Law

Unless we provide otherwise in the applicable prospectus supplement, the subscription rights and subscription rights agreements will be governed by and construed in accordance with the laws of the State of New York.

Enforceability of Rights by Holders of Subscription Rights

Each subscription rights agent will act solely as our agent under the applicable subscription rights agreement and will not assume any obligation or relationship of agency or trust with any holder of any subscription rights. A single bank or trust company may act as subscription rights agent for more than one issue of subscription rights. A subscription rights agent will have no duty or responsibility in case of any default by us under the applicable subscription rights agreement or subscription rights, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of subscription rights may, without the consent of the related subscription rights agent or the holder of any other subscription rights, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, its subscription rights.

TABLE OF CONTENTS

DESCRIPTION OF UNITS

The following description, together with the additional information we may include in any applicable prospectus supplements, summarizes the material terms and provisions of the units that we may offer under this prospectus. While the terms we have summarized below will apply generally to any units that we may offer under this prospectus, we will describe the particular terms of any series of units in more detail in the applicable prospectus supplement. The terms of any units offered under a prospectus supplement may differ from the terms described below. However, no prospectus supplement will fundamentally change the terms that are set forth in this prospectus or offer a security that is not registered and described in this prospectus at the time of its effectiveness.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from a current report on Form 8-K that we file with the SEC, the form of unit agreement that describes the terms of the series of units we are offering, and any supplemental agreements, before the issuance of the related series of units. The following summaries of material terms and provisions of the units are subject to, and qualified in their entirety by reference to, all the provisions of the unit agreement and any supplemental agreements applicable to a particular series of units. We urge you to read the applicable prospectus supplements related to the particular series of units that we sell under this prospectus, as well as the complete unit agreement and any supplemental agreements that contain the terms of the units.

General

We may issue units comprised of one or more debt securities, shares of common stock, shares of preferred stock, warrants and subscription rights in any combination. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date.

We will describe in the applicable prospectus supplement the terms of the series of units being offered, including:

the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;

any provisions of the governing unit agreement that differ from those described below; and
any provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units.

The provisions described in this section, as well as those described under Description of Capital Stock, Description of Debt Securities, Description of Warrants and Description of Subscription Rights will apply to each unit and to any common stock, preferred stock, debt security, warrant or subscription right included in each unit, respectively.

Issuance in Series

We may issue units in such amounts and in numerous distinct series as we determine.

Enforceability of Rights by Holders of Units

Each unit agent will act solely as our agent under the applicable unit agreement and will not assume any obligation or relationship of agency or trust with any holder of any unit. A single bank or trust company may act as unit agent for more than one series of units. A unit agent will have no duty or responsibility in case of any default by us under the applicable unit agreement or unit, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a unit may, without the consent of the related unit agent or the holder of any other unit, enforce by appropriate legal action its rights as holder under any security included in the unit.

TABLE OF CONTENTS

Title

We, the unit agents and any of their agents may treat the registered holder of any unit certificate as an absolute owner of the units evidenced by that certificate for any purpose and as the person entitled to exercise the rights attaching to the units so requested, despite any notice to the contrary. See Legal Ownership of Securities.

27

TABLE OF CONTENTS

LEGAL OWNERSHIP OF SECURITIES

We can issue securities in registered form or in the form of one or more global securities. We describe global securities in greater detail below. We refer to those persons who have securities registered in their own names on the books that we or any applicable trustee, depository, warrant agent, subscription rights agent or unit agent maintain for this purpose as the holders of those securities. These persons are the legal holders of the securities. We refer to those persons who, indirectly through others, own beneficial interests in securities that are not registered in their own names, as indirect holders of those securities. As we discuss below, indirect holders are not legal holders, and investors in securities issued in book-entry form or in street name will be indirect holders.

Book-Entry Holders

We may issue securities in book-entry form only, as we will specify in the applicable prospectus supplement. This means securities may be represented by one or more global securities registered in the name of a financial institution that holds them as depository on behalf of other financial institutions that participate in the depository's book-entry system. These participating institutions, which are referred to as participants, in turn, hold beneficial interests in the securities on behalf of themselves or their customers.

Only the person in whose name a security is registered is recognized as the holder of that security. Global securities will be registered in the name of the depository or its participants. Consequently, for global securities, we will recognize only the depository as the holder of the securities, and we will make all payments on the securities to the depository. The depository passes along the payments it receives to its participants, which in turn pass the payments along to their customers who are the beneficial owners. The depository and its participants do so under agreements they have made with one another or with their customers; they are not obligated to do so under the terms of the securities.

As a result, investors in a global security will not own securities directly. Instead, they will own beneficial interests in a global security, through a bank, broker or other financial institution that participates in the depository's book-entry system or holds an interest through a participant. As long as the securities are issued in global form, investors will be indirect holders, and not legal holders, of the securities.

Street Name Holders

We may terminate a global security or issue securities that are not issued in global form. In these cases, investors may choose to hold their securities in their own names or in street name. Securities held by an investor in street name would be registered in the name of a bank, broker or other financial institution that the investor chooses, and the investor would hold only a beneficial interest in those securities through an account he or she maintains at that institution.

For securities held in street name, we or any applicable trustee or depository will recognize only the intermediary banks, brokers and other financial institutions in whose names the securities are registered as the holders of those securities, and we or any such trustee or depository will make all payments on those securities to them. These institutions pass along the payments they receive to their customers who are the beneficial owners, but only because they agree to do so in their customer agreements or because they are legally required to do so. Investors who hold securities in street name will be indirect holders, not holders, of those securities.

Legal Holders

Our obligations, as well as the obligations of any applicable trustee or third party employed by us or a trustee, run only to the legal holders of the securities. We do not have obligations to investors who hold beneficial interests in global securities, in street name or by any other indirect means. This will be the case whether an investor chooses to be an indirect holder of a security or has no choice because we are issuing the securities only in global form.

For example, once we make a payment or give a notice to the holder, we have no further responsibility for the payment or notice even if that holder is required, under agreements with its participants or customers or by law, to pass it along to the indirect holders but does not do so. Similarly, we may want to

TABLE OF CONTENTS

obtain the approval of the holders to amend an indenture, to relieve us of the consequences of a default or of our obligation to comply with a particular provision of an indenture, or for other purposes. In such an event, we would seek approval only from the legal holders, and not the indirect holders, of the securities. Whether and how the holders contact the indirect holders is up to the legal holders.

Special Considerations for Indirect Holders

If you hold securities through a bank, broker or other financial institution, either in book-entry form because the securities are represented by one or more global securities or in street name, you should check with your own institution to find out:

- how it handles securities payments and notices;
- whether it imposes fees or charges;
- how it would handle a request for the holders' consent, if ever required;
- whether and how you can instruct it to send you securities registered in your own name so you can be a holder, if that is permitted in the future;
- how it would exercise rights under the securities if there were a default or other event triggering the need for holders to act to protect their interests; and
- if the securities are in book-entry form, how the depository's rules and procedures will affect these matters.

Global Securities

A global security is a security that represents one or any other number of individual securities held by a depository. Generally, all securities represented by the same global securities will have the same terms.

Each security issued in book-entry form will be represented by a global security that we issue to, deposit with and register in the name of a financial institution or its nominee that we select. The financial institution that we select for this purpose is called the depository. Unless we specify otherwise in the applicable prospectus supplement, The Depository Trust Company, New York, New York, known as DTC, will be the depository for all securities issued in book-entry form.

A global security may not be transferred to or registered in the name of anyone other than the depository, its nominee or a successor depository, unless special termination situations arise. We describe those situations below under **Special Situations When A Global Security Will Be Terminated**. As a result of these arrangements, the depository, or its nominee, will be the sole registered owner and legal holder of all securities represented by a global security, and investors will be permitted to own only beneficial interests in a global security. Beneficial interests must be held by means of an account with a broker, bank or other financial institution that in turn has an account with the depository or with another institution that does. Thus, an investor whose security is represented by a global security will not be a legal holder of the security, but only an indirect holder of a beneficial interest in the global security.

If the prospectus supplement for a particular security indicates that the security will be issued as a global security, then the security will be represented by a global security at all times unless and until the global security is terminated. If termination occurs, we may issue the securities through another book-entry clearing system or decide that the securities may no longer be held through any book-entry clearing system.

Special Considerations For Global Securities

As an indirect holder, an investor's rights relating to a global security will be governed by the account rules of the investor's financial institution and of the depository, as well as general laws relating to securities transfers. We do not recognize an indirect holder as a holder of securities and instead deal only with the depository that holds the global security.

29

TABLE OF CONTENTS

If securities are issued only as global securities, an investor should be aware of the following:

an investor cannot cause the securities to be registered in his or her name, and cannot obtain non-global certificates for his or her interest in the securities, except in the special situations we describe below;

an investor will be an indirect holder and must look to his or her own bank or broker for payments on the securities and protection of his or her legal rights relating to the securities, as we describe above;

an investor may not be able to sell interests in the securities to some insurance companies and to other institutions that are required by law to own their securities in non-book-entry form;

an investor may not be able to pledge his or her interest in the global security in circumstances where certificates representing the securities must be delivered to the lender or other beneficiary of the pledge in order for the pledge to be effective;

the depositary's policies, which may change from time to time, will govern payments, transfers, exchanges and other matters relating to an investor's interest in the global security;

we and any applicable trustee have no responsibility for any aspect of the depositary's actions or for its records of ownership interests in the global security, nor will we or any applicable trustee supervise the depositary in any way;

the depositary may, and we understand that DTC will, require that those who purchase and sell interests in the global security within its book-entry system use immediately available funds, and your broker or bank may require you to do so as well; and

financial institutions that participate in the depositary's book-entry system, and through which an investor holds its interest in the global security, may also have their own policies affecting payments, notices and other matters relating to the securities.

There may be more than one financial intermediary in the chain of ownership for an investor. We do not monitor and are not responsible for the actions of any of those intermediaries.

Special Situations When A Global Security Will Be Terminated

In a few special situations described below, a global security will terminate and interests in it will be exchanged for physical certificates representing those interests. After that exchange, the choice of whether to hold securities directly or in street name will be up to the investor. Investors must consult their own banks or brokers to find out how to have their interests in securities transferred to their own names, so that they will be direct holders. We have described the rights of holders and street name investors above.

A global security will terminate when the following special situations occur:

if the depositary notifies us that it is unwilling, unable or no longer qualified to continue as depositary for that global security and we do not appoint another institution to act as depositary within 90 days;

if we notify any applicable trustee that we wish to terminate that global security; or

if an event of default has occurred with regard to securities represented by that global security and has not been cured or waived.

The applicable prospectus supplement may also list additional situations for terminating a global security that would apply only to the particular series of securities covered by the prospectus supplement. When a global security terminates, the depositary, and neither we nor any applicable trustee, is responsible for deciding the names of the institutions that will be the initial direct holders.

TABLE OF CONTENTS

PLAN OF DISTRIBUTION

We may sell the securities from time to time pursuant to underwritten public offerings, negotiated transactions, block trades or a combination of these methods. We may sell the securities to or through underwriters or dealers, through agents, or directly to one or more purchasers. We may make direct sales through subscription rights, which may or may not be transferable. In any distribution of subscription rights, if all of the underlying securities are not subscribed for, we may then sell the unsubscribed securities directly to third parties or may engage the services of one or more underwriters, dealers or agents, including standby underwriters, to sell the unsubscribed securities to third parties. We may distribute securities from time to time in one or more transactions:

at a fixed price or prices, which may be changed;
at market prices prevailing at the time of sale;
at prices related to such prevailing market prices; or
at negotiated prices.

We may also sell equity securities covered by this registration statement in an at the market offering as defined in Rule 415 under the Securities Act. Such offering may be made into an existing trading market for such securities in transactions at other than a fixed price, either:

on or through the facilities of the Nasdaq Global Market or any other securities exchange or quotation or trading service on which such securities may be listed, quoted or traded at the time of sale; and/or
to or through a market maker otherwise than on the Nasdaq Global Market or such other securities exchanges or quotation or trading services.

Such at-the-market offerings, if any, may be conducted by underwriters acting as principal or agent.

A prospectus supplement or supplements (and any related free writing prospectus that we may authorize to be provided to you) will describe the terms of the offering of the securities, including, to the extent applicable:

the name or names of any underwriters, if any;
the purchase price of the securities and the proceeds we will receive from the sale;
any over-allotment options under which underwriters may purchase additional securities from us;
any agency fees or underwriting discounts and other items constituting agents or underwriters compensation;
any public offering price;
any discounts or concessions allowed or reallocated or paid to dealers; and
any securities exchange or market on which the securities may be listed.

Only underwriters named in the prospectus supplement are underwriters of the securities offered by the prospectus supplement.

If underwriters are used in the sale, they will acquire the securities for their own account and may resell the securities from time to time in one or more transactions at a fixed public offering price or at varying prices determined at the time of sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. We may offer the securities to the public through underwriting syndicates represented by managing underwriters or by underwriters without a syndicate. Subject to certain conditions, the underwriters will be obligated to purchase all of the securities offered by the prospectus supplement. Any public offering price and any discounts or concessions allowed or reallocated or paid to dealers may change from time to time.

We may

TABLE OF CONTENTS

use underwriters with whom we have a material relationship. We will describe in the prospectus supplement, naming the underwriter, the nature of any such relationship.

We may sell securities directly or through agents we designate from time to time. We will name any agent involved in the offering and sale of securities and we will describe any commissions we will pay the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, our agent will act on a best-efforts basis for the period of its appointment.

We may authorize agents or underwriters to solicit offers by certain types of institutional investors to purchase securities from us at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. We will describe the conditions to these contracts and the commissions we must pay for solicitation of these contracts in the prospectus supplement.

We may provide agents and underwriters with indemnification against civil liabilities related to this offering, including liabilities under the Securities Act, or contribution with respect to payments that the agents or underwriters may make with respect to these liabilities. Agents and underwriters may engage in transactions with, or perform services for, us in the ordinary course of business.

All securities we offer, other than common stock, will be new issues of securities with no established trading market. Any underwriters may make a market in these securities, but will not be obligated to do so and may discontinue any market making at any time without notice. We cannot guarantee the liquidity of the trading markets for any securities.

Any underwriter may engage in overallotment, stabilizing transactions, short covering transactions and penalty bids in accordance with Regulation M under the Exchange Act. Overallotment involves sales in excess of the offering size, which create a short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum. Short covering transactions involve purchases of the securities in the open market after the distribution is completed to cover short positions. Penalty bids permit the underwriters to reclaim a selling concession from a dealer when the securities originally sold by the dealer are purchased in a stabilizing or covering transaction to cover short positions. Those activities may cause the price of the securities to be higher than it would otherwise be. If commenced, the underwriters may discontinue any of the activities at any time.

Any underwriters who are qualified market makers on the Nasdaq Global Market may engage in passive market making transactions in the securities on the Nasdaq Global Market in accordance with Rule 103 of Regulation M, during the business day prior to the pricing of the offering, before the commencement of offers or sales of the securities. Passive market makers must comply with applicable volume and price limitations and must be identified as passive market makers. In general, a passive market maker must display its bid at a price not in excess of the highest independent bid for such security; if all independent bids are lowered below the passive market maker's bid, however, the passive market maker's bid must then be lowered when certain purchase limits are exceeded. Passive market making may stabilize the market price of the securities at a level above that which might otherwise prevail in the open market and, if commenced, may be discontinued at any time.

In compliance with guidelines of the Financial Industry Regulatory Authority, or FINRA, the maximum consideration or discount to be received by any FINRA member or independent broker dealer may not exceed 8% of the aggregate amount of the securities offered pursuant to this prospectus and any applicable prospectus supplement.

TABLE OF CONTENTS

LEGAL MATTERS

Unless otherwise indicated in the applicable prospectus supplement, certain legal matters in connection with the offering and the validity of the securities offered by this prospectus, and any supplement thereto, will be passed upon by Cooley Godward Kronish LLP.

EXPERTS

The consolidated financial statements of Micromet, Inc. appearing in Micromet, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2008, and the effectiveness of Micromet, Inc.'s internal control over financial reporting as of December 31, 2008, have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated by reference in this prospectus supplement and the accompanying prospectus. The consolidated financial statements of Micromet, Inc. at December 31, 2007 and for the year then ended appearing in Micromet, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2008, have been audited by Ernst & Young GmbH WPG, independent registered public accounting firm, formerly known as Ernst & Young AG and Ernst & Young Deutsche Allgemeine Treuhand AG WPG, as set forth in their report thereon, included therein, and incorporated by reference in this prospectus supplement and the accompanying prospectus. Such consolidated financial statements have been incorporated herein and therein by reference in reliance upon such reports given on the authority of such firms as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

This prospectus is part of a registration statement we filed with the Securities and Exchange Commission, or SEC. This prospectus does not contain all of the information set forth in the registration statement and the exhibits to the registration statement. For further information with respect to us and the securities we are offering under this prospectus, we refer you to the registration statement and the exhibits and schedules filed as a part of the registration statement. You should rely only on the information contained in this prospectus or incorporated by reference. We have not authorized anyone else to provide you with different information. We are not making an offer of these securities in any state where the offer is not permitted. You should not assume that the information in this prospectus is accurate as of any date other than the date on the front page of this prospectus, regardless of the time of delivery of this prospectus or any sale of the securities offered by this prospectus.

We file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy the registration statement, as well as any other document filed by us with the SEC, at the SEC's Public Reference Room at 100 F Street NE, Washington, D.C. 20549. You can also request copies of these documents by writing to the SEC and paying a fee for the copying cost. You may obtain information on the operation of the Public Reference Room by calling the SEC at (800) SEC-0330. The SEC maintains a website that contains reports, proxy statements and other information regarding issuers that file electronically with the SEC, including Micromet. The address of the SEC website is www.sec.gov.

We maintain a website at www.micromet-inc.com. Information contained in or accessible through our website does not constitute a part of this prospectus.

INCORPORATION BY REFERENCE

The SEC allows us to incorporate by reference information into this prospectus, which means that we can disclose important information to you by referring you to another document filed separately with the SEC. The SEC file number for the documents incorporated by reference in this prospectus is 0-50440. The documents incorporated by reference into this prospectus contain important information that you should read about us.

The following documents are incorporated by reference into this document:

our Annual Report on Form 10-K for the fiscal year ended December 31, 2008 and filed with the SEC on March 16, 2009;

33

TABLE OF CONTENTS

the information specifically incorporated by reference into our Annual Report on Form 10-K for the fiscal year ended December 31, 2008 from our definitive proxy statement on Schedule 14A (other than information furnished rather than filed) filed with the SEC on April 30, 2009 and additional definitive materials filed on the same date;

our Quarterly Report on Form 10-Q for the quarter ended March 31, 2009, filed with the SEC on May 11, 2009; our Current Reports on Form 8-K (other than information furnished rather than filed) filed with the SEC on January 14, 2009, February 23, 2009, March 12, 2009, July 10, 2009 and July 30, 2009;

our Quarterly Report on Form 10-Q for the quarter ended June 30, 2009, filed with the SEC on August 6, 2009; the description of our common stock, which is registered under Section 12 of the Exchange Act, in our registration statement on Form 8-A, filed with the SEC on October 24, 2003, including any amendments or reports filed for the purpose of updating such description; and

the description of our Series A Junior Participating Preferred Stock Purchase Rights (the Rights) contained in our registration statement on Form 8-A registering the Rights under Section 12 of the Exchange Act, filed with the SEC on November 12, 2004, including any amendments or reports filed for the purpose of updating that description.

We also incorporate by reference into this prospectus all documents (other than current reports furnished under Item 2.02 or Item 7.01 of Form 8-K and exhibits filed on such form that are related to such items) that are filed by us with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act (i) after the date of the initial filing of the registration statement of which this prospectus forms a part and prior to effectiveness of the registration statement, or

(ii) after the date of this prospectus but prior to the termination of the offering. These documents include periodic reports, such as Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K, as well as proxy statements.

We will provide to each person, including any beneficial owner, to whom a prospectus is delivered, without charge upon written or oral request, a copy of any or all of the documents that are incorporated by reference into this prospectus but not delivered with the prospectus, including exhibits which are specifically incorporated by reference into such documents. Requests should be directed to: Micromet, Inc., Attn: Investor Relations, 6707 Democracy Blvd., Suite 505, Bethesda, MD 20817, telephone: (240) 752-1420.

Any statement contained herein or in a document incorporated or deemed to be incorporated by reference into this document will be deemed to be modified or superseded for purposes of the document to the extent that a statement contained in this document or any other subsequently filed document that is deemed to be incorporated by reference into this document modifies or supersedes the statement.

DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION FOR SECURITIES ACT LIABILITY

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, the registrant has been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

TABLE OF CONTENTS

9,900,000 Shares
Micromet, Inc.
Common Stock

Piper Jaffray

