

PURE BIOSCIENCE, INC.
 Form 424B5
 December 15, 2011
 Filed Pursuant to Rule 424(b)(5)

Registration No. 333 — 158555
 Registration No. 333 — 173826

PROSPECTUS SUPPLEMENT
 (to the prospectus dated May 5, 2009)

\$2,575,000 in Shares of Common Stock

Pursuant to this prospectus supplement and the accompanying prospectus, we are offering up to \$2,575,000 in shares of our common stock, par value \$0.01 per share, to Lincoln Park Capital Fund, LLC, or Lincoln Park, under a purchase agreement entered into on December 15, 2011.

The shares to be offered pursuant to this prospectus supplement include (i) 1,347,709 shares of our common stock at a price per share of \$0.371 for an aggregate amount of \$500,000, (ii) up to \$2,000,000 in shares of our common stock that may be sold to Lincoln Park from time to time over a 36-month period, from time to time and at our discretion, at a per share purchase price equal to the lower of (a) the lowest sale price for our common stock reported on the NASDAQ Capital Market on the purchase date of such shares or (b) the arithmetic average of the three lowest closing sale prices for our common stock during the 12 consecutive business days ending on the business day immediately preceding the purchase date of such shares; provided that in no event will such shares be sold to Lincoln Park at a price of less than \$0.25 per share, and (iii) 156,904 shares of our common stock to be issued to Lincoln Park on the date of the prospectus supplement, at no cost to Lincoln Park, as consideration for its commitment to purchase such shares.

Our common stock is traded on the NASDAQ Capital Market under the symbol "PURE". On December 14, 2011, the last reported sale price of our common stock on the NASDAQ Capital Market was \$0.48.

As of November 1, 2011, the aggregate market value of our outstanding common stock held by non-affiliates was approximately \$26,867,000, based on 41,148,206 shares of outstanding common stock, of which 38,380,775 shares were held by non-affiliates, and a per share price of \$0.70 based on the closing sale price of our common stock on such date. During the period of 12 calendar months immediately prior to, and including, the date of this prospectus supplement, we have sold 3,973,667 shares of our common stock pursuant to General Instruction I.B.6. of Form S-3.

	Per Share	Total
Offering Price to Lincoln Park	\$0.371	\$500,000
	Unknown	\$2,000,000
Commitment Shares to Lincoln Park ¹	\$0.48	\$75,000
Proceeds to us, before other expenses ²	—	\$2,500,000

- 1 The price per Commitment Share equals the average of the closing sale prices of our common stock for the ten (10) consecutive business days prior to December 2, 2011, or \$.478 per share.
 - 2 Does not include fees that may be paid by us to Wharton Capital Markets LLC for its assistance in arranging our agreements with Lincoln Park. See "Plan of Distribution".
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Investing in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should review carefully the risks and uncertainties described under the heading “Risk Factors” on page S-5 of this prospectus supplement.

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

The date of this prospectus supplement is December 15, 2011.

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No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus supplement or the accompanying prospectus. You must not rely on any unauthorized information or representations. This prospectus supplement and the accompanying prospectus are an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this prospectus supplement and the accompanying prospectus is current only as of their respective dates.

ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement and the accompanying base prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, utilizing a “shelf” registration process. Each time we sell securities under the accompanying base prospectus we will provide a prospectus supplement that will contain specific information about the terms of that offering, including the price, the amount of securities being offered and the plan of distribution. The shelf registration statement, as amended, was filed with the SEC on May 6, 2009, and was declared effective by the SEC on May 8, 2009, and a registration statement registering additional shares of our common stock pursuant to Rule 462(b) under the Securities Act of 1933, as amended, was filed with the SEC on April 29, 2011. This prospectus supplement describes the specific details regarding this offering, including the price, the amount of common stock being offered, the risks of investing in our common stock and arrangements with Lincoln Park. The accompanying base prospectus provides general information about us, some of which, such as the section entitled “Plan of Distribution,” may not apply to this offering.

If information in this prospectus supplement is inconsistent with the accompanying base prospectus or the information incorporated by reference, you should rely on this prospectus supplement. This prospectus supplement, together with the base prospectus and the documents incorporated by reference into this prospectus supplement and the base prospectus, includes all material information relating to this offering. We have not authorized anyone to provide you with different or additional information. You should assume that the information appearing in this prospectus supplement, the accompanying prospectus, and the documents incorporated by reference in this prospectus supplement and the accompanying prospectus is accurate only as of the respective dates of those documents. Our business, financial condition, results of operations and prospects may have changed since those dates. You should carefully read this prospectus supplement, the base prospectus, the information and documents incorporated herein by reference and the additional information under the heading “Where You Can Find More Information” before making an investment decision.

PROSPECTUS SUMMARY

This summary highlights information contained elsewhere in this prospectus supplement, the accompanying base prospectus and the documents incorporated by reference. This summary does not contain all of the information that you should consider before deciding to invest in our securities. You should read this entire prospectus supplement and the accompanying base prospectus carefully, including the section entitled “Risk Factors” beginning on page S-5 and our consolidated financial statements and the related notes and the other information incorporated by reference into this prospectus supplement and the accompanying prospectus before making an investment decision.

OUR BUSINESS

We are focused on the discovery, development and commercialization of bioscience products that provide solutions to global health challenges. Our technology platform is based on stabilized ionic silver, and our initial products contain silver dihydrogen citrate, or SDC. SDC is a broad-spectrum, non-toxic antimicrobial. We manufacture and sell SDC-based disinfecting and sanitizing products, which are registered by the Environmental Protection Agency, or EPA, to distributors and end users. We also manufacture and sell various SDC-based formulations to manufacturers for use as a raw material in the production of personal care and other products. We believe our technology platform has potential application in a number of industries, and we have ongoing research and development projects in food processing, agriculture, water treatment, pharmaceuticals, and oil and gas.

We are an early stage company and have encountered, and likely will continue to encounter, risks and difficulties in introducing or establishing our products in rapidly evolving and highly competitive and regulated markets. Our current SDC-based products, and, we believe, SDC-based products that may be developed in the future, require or will require approval by government agencies prior to marketing or sale in the U.S. or in foreign markets. Complying with applicable government regulations and obtaining necessary approvals has historically been, and we expect to continue to be, time consuming and expensive, due in part, we believe, to the novel nature of our technology. While our goal is to become a sustainable company by using our proprietary technology platform to deliver leading antimicrobial products to multiple industries, our history of losses and inability in past periods to generate sufficient cash from our operations leads us to we anticipate that market acceptance of our novel technology may be a long term achievement.

Unless otherwise mentioned or unless the context requires otherwise, all references in this prospectus to “we,” “us” and “our” refer to Pure Bioscience, Inc., a Delaware corporation. We own the registered trademarks or pending trademark applications for PURE Bioscience®, Powered by SDC Ag+®, Staph Attack®, Staphacide®, Axenohl™, Axen™, Silvéron®, Kinderguard®, Cruise Control®, Nutripure™, Elderguard®, Critterguard® and Innovex®. In addition, we have applications for other trademarks, tradenames and service marks pending in countries outside of the United States. All other trademarks, tradenames and service marks included or incorporated by reference into this prospectus supplement, the prospectus, any other prospectus supplement or any related free writing prospectus, are the property of their respective owners.

We were incorporated in the state of California on August 24, 1992 under the name “Innovative Medical Services”. We changed our name to Pure Bioscience on October 6, 2003. On March 24, 2011, we changed our state of incorporation from California to Delaware and changed our name from Pure Bioscience to Pure Bioscience, Inc. Our principal executive offices are located at 1725 Gillespie Way, El Cajon, California, 92020. Our telephone number is (619) 596-8600. Our website is located at www.purebio.com. The information found on, or accessible through, our website is not a part of this prospectus.

RECENT DEVELOPMENTS

Agreements with Lincoln Park Capital Fund, LLC

We have entered into two purchase agreements and a registration rights agreement with Lincoln Park Capital Fund, LLC, or Lincoln Park.

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On December 15, 2011, we entered into a purchase agreement with Lincoln Park, or the \$2.5M Purchase Agreement, pursuant to which Lincoln Park has agreed to purchase from us the securities being offered pursuant to this prospectus supplement for gross proceeds to us of up to \$2,500,000 (subject to certain limitations). Under the terms of the \$2.5M Purchase Agreement, Lincoln Park will initially purchase 1,347,709 shares of our common stock at a price per share of \$0.371 for an aggregate amount of \$500,000. Thereafter, we may, from time to time and at our sole discretion but no more frequently than every two business days during the 36-month period commencing on the date of this prospectus supplement, direct Lincoln Park to purchase up to 200,000, 250,000, or 300,000 shares of our common stock on any such day, depending on the closing sale price of our common stock on such day, up to an aggregate amount of \$2,000,000 of our common stock, at a purchase price per share, or the Purchase Price, equal to the lower of (i) the lowest sale price for our common stock reported on the NASDAQ Capital Market on the purchase date of such shares or (ii) the arithmetic average of the three lowest closing sale prices for our common stock during the 12 consecutive business days ending on the business day immediately preceding the purchase date of such shares; provided that in no event will such shares be sold to Lincoln Park at a price of less than \$0.25 per share. The Purchase Price will be equitably adjusted for any reorganization, recapitalization, non-cash dividend, stock split, or other similar transaction occurring during the business days used to compute the Purchase Price.

On December 14, 2011, we entered into a purchase agreement, or the \$7.5M Purchase Agreement, and a Registration Rights Agreement, or the Registration Agreement, with Lincoln Park, pursuant to which Lincoln Park has agreed to purchase from us up to \$7,500,000 in shares of our common stock (subject to certain limitations) from time to time over the 36-month period commencing on the date of the effectiveness of a registration statement for the resale of such shares that we must file with the SEC pursuant to the Registration Agreement. We do not have the right to commence any sales to Lincoln Park under the \$7.5M Purchase Agreement until the SEC has declared effective the resale registration statement, but after such registration statement is declared effective, we may direct Lincoln Park, from time to time and at our sole discretion but no more frequently than every two business days, to purchase at the Purchase Price up to 200,000, 250,000 or 300,000 shares of our common stock on any such day, depending on the closing sale price of our common stock on such day; provided that in no event will such shares be sold to Lincoln Park at a price of less than \$0.25 per share.

As consideration for Lincoln Park's commitment to purchase our common stock pursuant to the \$2.5M Purchase Agreement, we will issue to Lincoln Park an additional 156,904 shares of our common stock on the date of this prospectus supplement, at no cost to Lincoln Park, all of which are being offered pursuant to this prospectus supplement. Additionally, as consideration for Lincoln Park's commitment to purchase our common stock pursuant to the \$7.5M Purchase Agreement, we have issued to Lincoln Park 470,711 shares of our common stock that are not registered under this prospectus supplement but, pursuant to the Registration Agreement, must be registered for resale under the registration statement that we are required to file with the SEC pursuant to the Registration Agreement.

Termination of "At the Market" Offering

Effective as of December 14, 2011, we have terminated the Sales Agreement, dated April 29, 2011, that we entered into with C. K. Cooper and Company, Inc., or CKCC, in connection with sales by CKCC of shares of our common stock in "at the market" offerings, as defined in Rule 415 of the Securities Act of 1933, as amended, or the Securities Act. Since July 31, 2011, we have sold 1,337,091 shares of our common stock pursuant to these "at the market" offerings, for net proceeds to us of \$948,000. As of the date of this prospectus, \$2,674,340 remains available on our Registration Statement on Form S-3 (Registration No. 333-158555), together with our Registration Statement on Form S-3MEF (Registration No. 333-173826).

Richmont Litigation

We filed suit against Richmont Sciences, LLC on June 29, 2011 in San Diego County Superior Court, Case No. 37-2011-00068549-CU-CO-EC asserting various causes of action to collect on outstanding invoices. Richmont

Sciences, LLC and Richmond Holdings, LLC filed a cross-complaint for damages against us asserting contract, tort and statutory (trade secret) claims arising out of business dealings with us. We then filed a cross-complaint for compensatory and punitive damages against both Richmond entities asserting contract and fraud claims. We intend to vigorously pursue our claims and defend against the cross-claims, but we may not be able to resolve this matter on terms favorable to us and our efforts could be costly.

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THE OFFERING

The following is a brief summary of some of the terms of the offering and is qualified in its entirety by reference to the more detailed information appearing elsewhere in this prospectus supplement and the accompanying prospectus. For a more complete description of the terms of our common stock, see the “Description of the Securities We Are Offering” section in this prospectus supplement.

Securities We Are Offering	<p>156,904 shares of our common stock, par value \$0.01 per share, to be issued to Lincoln Park on the date of this prospectus supplement at no cost to Lincoln Park, as consideration for its commitment to purchase our common stock;</p> <p>1,347,709 shares of our common stock, par value \$0.01 per share, to be sold to Lincoln Park at a price per share of \$0.371 for an aggregate amount of \$500,000; and</p> <p>up to \$2,000,000 of our common stock, par value \$0.01 per share, subject to certain limitations, which may be sold to Lincoln Park, from time to time and at our discretion over a 36-month period commencing on the date of this prospectus supplement, at a purchase price of the lower of (i) the lowest sale price for our common stock on the purchase date of such shares or (ii) the arithmetic average of the three lowest closing sale prices for our common stock during the 12 consecutive business days ending on the business day immediately preceding the purchase date of such shares; provided that in no event will such shares be sold to Lincoln Park at a price of less than \$0.25 per share.</p>
Common Stock Outstanding Immediately Before This Offering	41,992,461 shares (which includes an aggregate of 470,711 in commitment shares issued to Lincoln Park pursuant to the \$7.5M Purchase Agreement, as described herein.
Use of Proceeds	General corporate purposes, which may include sales and marketing efforts relating to our products and product candidates. For more information, see “Use of Proceeds” on page S-18.
Risk Factors	See “Risk Factors” and other information included in this prospectus supplement, or incorporated herein by reference, for a discussion of factors you should carefully consider before deciding to invest in our common stock.
NASDAQ Capital Market Symbol	PURE

Except as otherwise indicated, the information contained in this prospectus supplement assumes the sale of all of the shares offered hereby.

The number of shares of our common stock outstanding as of December 13, 2011, which was 41,521,750, excludes:

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- 1,509,100 shares of our common stock issuable upon exercise of warrants outstanding on December 13, 2011, all of which are exercisable at prices ranging from \$2.06 to \$8.60 per share;
- 2,887,750 shares of our common stock issuable upon exercise of options outstanding as of December 13, 2011, of which approximately 1,772,238 shares are exercisable; and
- 1,733,550 shares of our common stock available for future grants under our stock option plan as of December 13, 2011.

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RISK FACTORS

Investing in our common stock involves a high degree of risk. Before purchasing our common stock, you should carefully consider the following risk factors as well as all other information contained in this prospectus supplement and the accompanying prospectus and the documents incorporated by reference, including our consolidated financial statements and the related notes. Each of these risk factors, either alone or taken together, could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our common stock. There may be additional risks that we do not presently know of or that we currently believe are immaterial which could also impair our business and financial position. If any of the events described below were to occur, our financial condition, our ability to access capital resources, our results of operations and/or our future growth prospects could be materially and adversely affected and the market price of our common stock could decline. As a result you could lose some or all of any investment you may have made or may make in our common stock.

Risks Related to this Offering and our Common Stock

The sale or issuance of our common stock to Lincoln Park may cause dilution and the sale of the shares of common stock acquired by Lincoln Park, or the perception that such sales may occur, could cause the price of our common stock to fall

On December 15, 2011, we entered into the \$2.5M Purchase Agreement with Lincoln Park, pursuant to which we may issue to Lincoln Park the securities being offered pursuant to this prospectus supplement, or up to \$2,500,000 of our common stock (subject to certain limitations) and 156,904 shares to be issued to Lincoln Park at no cost as a fee for its commitment to purchase such shares. In addition, on December 14, 2011, we entered into the \$7.5M Purchase Agreement with Lincoln Park, pursuant to which Lincoln Park has committed to purchase an additional \$7,500,000 of our common stock, from time to time over a 36-month period commencing after the SEC has declared effective a registration statement for the resale of such shares that we must file with the SEC within 30 business days after the date of such agreement.

Other than Lincoln Park's initial purchase under the \$2.5M Purchase Agreement of 1,347,709 shares of our common stock at a price per share of \$0.371 for an aggregate amount of \$500,000, or the Initial Purchase, the purchase price for the shares that we may sell to Lincoln Park will fluctuate based on the price of our common stock. It is anticipated that shares registered by this prospectus supplement will be sold over a period of up to 36 months after the date of this prospectus supplement. Depending on market liquidity at the time, sales of such shares may cause the trading price of our common stock to fall.

We generally have the right to control the timing and amount of any sales of our shares to Lincoln Park, except that, pursuant to the terms of our agreements with Lincoln Park, we would be unable to sell shares to Lincoln Park if and when the market price of our common stock is below \$0.25 per share. Sales of our common stock, if any, to Lincoln Park will depend upon market conditions and other factors to be determined by us. As such, other than the Initial Purchase, Lincoln Park may ultimately purchase all, some or none of the shares of our common stock offered pursuant to this prospectus supplement and, after it has acquired shares, Lincoln Park may sell all, some or none of those shares. Therefore, sales to Lincoln Park by us pursuant to the \$2.5M Purchase Agreement could result in substantial dilution to the interests of other holders of our common stock. Additionally, the sale of a substantial number of shares of our common stock to Lincoln Park, or the anticipation of such sales, could make it more difficult for us to sell equity or equity-related securities in the future at a time and at a price that we might otherwise wish to effect sales.

You may 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 pursuant to this prospectus supplement may be substantially higher than the book value per share of our common stock, you may 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 \$2,500,000 of common stock in this offering, and based on an estimated public offering price of \$0.48 per share in this offering and a pro forma net tangible book value per share of our common stock of \$0.07 as of October 31, 2011, if you purchase securities in this offering, you will suffer immediate and substantial dilution in the net tangible book value of the common stock purchased. See “Dilution” on page S-17 for a more detailed discussion of the dilution you may incur in connection with this offering.

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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.

The price of our common stock may be volatile, which may cause investment losses for our stockholders

The price and trading volume of our common stock have historically been volatile. For example, in the twelve months through December 13, 2011, the closing market price of our common stock ranged from \$0.37 per share to \$2.64 per share, and the monthly trading volume varied from approximately 1.8 million shares to 15.5 million shares. Our agreements with Lincoln Park to sell up to \$2,500,000 and \$7,500,000 of our common stock to Lincoln Park could increase the volatility of the price of our common stock for the duration of such agreements. Other factors that could contribute to the continued volatility of the market price of our common stock include:

- actual or anticipated fluctuations in our results of operations;
- the introduction of new products or services, or product or service enhancements by us or our competitors;
- developments with respect to our or our competitors' intellectual property rights or regulatory approvals or denials;
 - announcements of significant acquisitions or other agreements by us or our competitors;
- the sale by us of our common or preferred stock or other securities, or the anticipation of sales of such securities;
 - sales or anticipated sales of our common stock by our insiders (management and directors);
 - the trading volume of our common stock, particularly if such volume is light;
 - conditions and trends in our industry;
 - changes in our pricing policies or the pricing policies of our competitors;
- changes in the estimation of the future size and growth of our markets; and, among other factors,
 - general economic conditions.

In addition, the stock market in general, the NASDAQ Capital Market, and the market for shares of novel technology and biotechnology companies in particular, have experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of those companies. Further, the market prices of bioscience companies have been unusually volatile in the last year, and such volatility may continue for the foreseeable future. These broad market and industry factors may materially harm the market price of our common stock, regardless of our operating performance. In addition, this volatility could adversely affect an investor's ability to sell shares of our common stock, and/or the available price for such shares, at any given time.

Following periods of volatility in the market price of a company's securities, stockholder derivative lawsuits and securities class action litigation are common. Such litigation, if instituted against us or our officers and directors, could result in substantial costs and a diversion of management's attention and resources.

We may not be able to maintain our NASDAQ listing

In April 2008, we obtained a listing for our common stock on the NASDAQ Capital Market. In order to maintain our listing, we will need to continue to meet certain listing standards that include maintaining minimum thresholds of stockholders' equity, market value of our listed or publicly held securities, number of publicly held shares, bid price for our common stock, number of stockholders, number of market makers, and our net income. In addition, certain of our corporate governance policies are required to remain compliant with standards determined, and amended from time to time, by the NASDAQ Stock Market, or NASDAQ.

On September 16, 2011, we received a deficiency letter, the Notification Letter, from NASDAQ notifying us that we no longer meet NASDAQ's requirements for continued listing on the NASDAQ Capital Market under NASDAQ Listing Rule 5550(a)(2), the Bid Price Rule, because the minimum bid price of our common stock did not equal or exceed \$1.00 at least once over a period of 30 consecutive trading days. NASDAQ explained in the Notification Letter that under NASDAQ Listing Rule 5810(c)(3)(A), we will be afforded 180 calendar days, or until March 14, 2012, to regain compliance with the Bid Price Rule. To regain compliance, the closing bid price of our common stock must meet or exceed \$1.00 per share for at least 10 consecutive business days. If we do not regain compliance by March 14, 2012, NASDAQ will provide written notification to us that our common stock will be subject to delisting from the NASDAQ Capital Market. We may, however, be eligible for an additional grace period of 180 calendar days if we satisfy the continued listing requirement for market value of publicly held shares and all other initial listing standards (with the exception of the Bid Price Rule) for listing on the NASDAQ Capital Market, and submit a timely notification to NASDAQ of our intention to cure the deficiency during the second compliance period, by effecting a reverse stock split, if necessary, which would need to be approved by our stockholders.

We are evaluating various actions to pursue to ensure compliance with NASDAQ's continued listing requirements, and there can be no assurance that we will be able to regain compliance with NASDAQ's continued listing requirements. If we fail to regain compliance with the Bid Price Rule or otherwise maintain the standards required now or in future by NASDAQ, our common stock could be delisted. Such delisting could cause our stock to be classified as "penny stock," among other potentially detrimental consequences, any of which could significantly impact your ability to sell your shares of our common stock or to sell your shares at a price that you may deem to be acceptable.

We have never paid dividends on our capital stock, and we do not anticipate paying any cash dividends in the foreseeable future

The continued operation and expansion of our business will require substantial funding. Investors seeking cash dividends in the foreseeable future should not purchase our common stock. We have paid no cash dividends on any of our capital stock to date and we currently intend to retain our available cash to fund the development and growth of our business. Any determination to pay dividends in the future will be at the discretion of our Board and will depend upon results of operations, financial condition, contractual restrictions, restrictions imposed by applicable law and other factors our Board deems relevant. We do not anticipate paying any cash dividends on our common stock in the foreseeable future. Any return to stockholders will therefore be limited to the appreciation of their stock, which may never occur.

Anti-takeover provisions under our charter documents and Delaware law could delay or prevent a change of control and could also limit the market price of our stock

Certain provisions of our charter and bylaws may delay or frustrate the removal of incumbent directors and may prevent or delay a merger, tender offer, or proxy contest involving us that is not approved by our Board, even if such events may be beneficial to the interests of stockholders. For example, our Board, without stockholder approval, has the authority and power to issue 5,000,000 shares of preferred stock and such preferred stock could have voting or conversion rights which could adversely affect the voting power of the holders of our common stock. In addition, we are governed by the provisions of Section 203 of the Delaware General Corporation Law, which may discourage, delay or prevent certain business combinations with stockholders owning 15% or more of our outstanding voting stock. These and other provisions in our charter documents may make it more difficult for stockholders or potential acquirers to initiate actions that are opposed by the then-current board of directors, including delaying or impeding a merger, tender offer, or proxy contest or other change of control transaction involving our company. Any delay or prevention of a change of control transaction could cause stockholders to lose a substantial premium over the then-current market price of their shares.

Risks Related to Our Business and Industry

We will need to raise additional capital in order to continue operating our business and continue to develop new products and technologies, and such additional funds may not be available on acceptable terms or at all

We have not generated, and may never generate, significant cash from operations and must raise additional funds in order to continue operating our business. Our cash outflows for operating activities and for investments in patents and fixed assets were \$1.5 million in the three months ended October 31, 2011, and \$6.4 million in the year ended July 31, 2011. Cash outflows may be greater in future periods.

Our capital requirements will depend on many factors, including, among other factors:

- the acceptance of, and demand for, our products;
- our success and that of our strategic partners in developing and selling products derived from our technology;
 - the costs of further developing our existing, and developing new, products or technologies;

- the extent to which we invest in new technology, testing and product development;
- the timing of vendor payments and of the collection of receivables, among other factors affecting our working capital;
 - the exercise of outstanding options or warrants to acquire our common stock;
 - the number and timing of acquisitions and other strategic transactions, if any; and
- the costs associated with the continued operation, and any future growth, of our business.

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We will need to increase our liquidity and capital resources. We have entered into agreements with Lincoln Park to raise capital through the issuance of our common stock, on which we expect to rely in the near term. However, pursuant to the terms of such agreements, we would be unable to sell shares to Lincoln Park if and when the market price of our common stock is below \$0.25 per share. Additionally, we anticipate that we may require additional capital in future periods to continue our operations and further develop our products and technologies. Until we can generate a sufficient amount of revenue to finance our cash requirements, which we may never do, we expect to increase our liquidity and capital resources by one or more measures, which may include reducing operating expenses, raising additional financing through the issuance of debt, equity (whether through our agreements with Lincoln Park or otherwise), or convertible securities, entering into partnerships, licenses, or other arrangements with third parties, reducing the exercise price of outstanding warrants, or through other means, any one of which could reduce the value to us, perhaps substantially, of our technology and its commercial potential. There is no guarantee that we will be able to obtain capital on terms acceptable to us, or at all. Insufficient funds would result in a material adverse effect on our business and operations and could cause us to fail to execute our business plan, fail to take advantage of future opportunities, or fail to respond to competitive pressures or customer requirements, and further may require us to delay, scale back or eliminate some or all of our research and product development programs, license to third parties the right to commercialize products or technologies that we would otherwise commercialize ourselves, to reduce or cease operations, or otherwise significantly modify our business model or cease operations altogether. Modification of our business model and operations could result in an impairment of assets, which cannot be determined at this time. Furthermore, if we issue equity or convertible debt securities to raise additional funds, our existing stockholders may experience dilution, and in addition the new equity or debt securities may have rights, preferences and privileges that are superior to those of our existing stockholders. If we incur debt, it may increase our leverage relative to our earnings or to our equity capitalization.

We have a history of losses, we may not achieve or maintain profitability

We had a loss of \$2.4 million for the three months ended October 31, 2011, and a loss of \$8.3 million for the year ended July 31, 2011. As of October 31, 2011, we had an accumulated deficit of approximately \$56.0 million. Although we expect to continue to have losses in future periods, we are unable to predict the extent of our future losses or when or if we will become profitable, and it is possible we will never become profitable. Even if we do achieve profitability, we may not be able to sustain or increase profitability on an ongoing basis.

None of our existing agreements contain provisions that guarantee us any minimum revenues. If the penetration into the marketplace of SDC and SDC-based products is unsuccessful, revenue growth is slower than anticipated or operating expenses exceed expectations, it may take an unforeseen period of time to achieve or maintain profitability and we may never achieve or maintain profitability. Slower than anticipated revenue growth could force us to reduce research, testing, development and marketing of our technologies, and/or force us to reduce the size and scope of our operations, to sell or license our technologies to third parties, or to cease operations altogether.

The risks associated with our business may be more acute during periods of economic slowdown or recession. In addition to other consequences, these periods may be accompanied by decreased consumer and institutional spending in general, as well as decreased demand for, or additional downward pricing pressure on, our products. Accordingly, any prolonged economic slowdown or a lengthy or severe recession with respect to either the U.S. or the global economy is likely to have a material adverse effect on our results of operations, financial condition and business prospects. As a result, given the current weakness and uncertainties in the U.S. and in certain overseas economies, we expect that our business will continue to be adversely affected for so long as, and to the extent that, such adverse economic conditions and uncertainty exist.

Raising additional funds by issuing securities or through collaboration and licensing arrangements, or other issuances of our securities, may cause dilution to existing stockholders, restrict our operations or require us to relinquish

proprietary rights

We expect that we will need to increase our liquidity and capital resources in the year ending July 31, 2012 and in future periods. We have a history of raising funds through offerings of our common stock, and we may in the future raise additional funds through public or private equity offerings (including pursuant to our recent agreements with Lincoln Park or otherwise), debt financings or corporate collaborations and licensing arrangements. The extent to which we rely on Lincoln Park as a source of funding will depend on a number of factors including, without limitation, the prevailing market price of our common stock and the extent to which we are able to secure working capital from other sources. To the extent that we raise additional capital by issuing equity securities, our stockholders' ownership will be diluted. Any debt financing we obtain may involve covenants that restrict our operations. These restrictive covenants may include, among other things, limitations on borrowing, specific restrictions on the use of our assets, as well as prohibitions on our ability to create liens on our assets, pay dividends on or redeem our capital stock or make investments. In addition, if we raise additional funds through collaboration and licensing arrangements, it may be necessary to grant licenses on terms that are not favorable to us or relinquish potentially valuable rights to our products or proprietary technologies. We may be required in future collaborations to relinquish all or a portion of our sales and marketing rights with respect to our products or license intellectual property that enable licensees to develop competing products in order to complete any such transaction.

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Our authorized common stock is 100,000,000 shares. In addition to capital raising activities, other possible business and financial uses for our authorized common stock include, without limitation, future stock splits, acquiring other companies, businesses or products in exchange for shares of common stock, issuing shares of our common stock to partners in connection with strategic alliances, attracting and retaining employees by the issuance of additional securities under our various equity compensation plans, or other transactions and corporate purposes that our Board of Directors, or Board, deems are in the Company's best interest. Additionally, shares of common stock could be used for anti-takeover purposes or to delay or prevent changes in control or management of the Company. For example, without further stockholder approval, the Board could sell shares of common stock in a private transaction to purchasers who would oppose a takeover or favor our current Board. We cannot provide assurances that any issuances of common stock will be consummated on favorable terms or at all, that they will enhance stockholder value, or that they will not adversely affect our business or the trading price of our common stock.

Under our Certificate of Incorporation, the Board could also issue 5,000,000 shares of preferred stock on terms determined by the Board. If any common or preferred stock is issued, the interests of holders of our common stock could be diluted, and shares of preferred stock could be issued in a financing in which investors purchase preferred stock with rights, preferences and privileges that may be superior to those of the common stock, and the market price of our common stock could decline.

If outstanding options and warrants to purchase shares of our common stock are exercised, the interests of our stockholders could be diluted

In addition to 41,521,750 shares of common stock issued and outstanding, we currently have 2,887,750 shares reserved for issuance under equity compensation plans for vested and unvested stock options. We also have 1,509,100 shares reserved for issuance on the exercise warrants and we have agreed to issue, subject to certain conditions, an additional warrant exercisable for 200,000 shares to Wharton Capital Markets LLC for its assistance in arranging our agreements with Lincoln Park. We may elect to reduce the exercise price of outstanding warrants as a means of providing additional financing to us. The exercise of options and warrants, and the sale of shares underlying such options or warrants, could have an adverse effect on the market for our common stock, including the price that an investor could obtain for their shares. Investors may experience dilution in the net tangible book value of their investment upon the exercise of outstanding options and warrants granted under our stock option plans, and options and warrants that may be granted or issued in the future.

Because we are an early stage company, it is difficult to evaluate our prospects; our financial results may fluctuate and these fluctuations may cause our stock price to fall

Since acquiring the rights to our SDC technology, we have encountered and likely will continue to encounter risks and difficulties associated with introducing or establishing our products in rapidly evolving markets. These risks include the following, among others:

- we may not increase our sales to our existing customers and/or expand our customer base;
- we may not succeed in materially penetrating markets and applications for our SDC technology;
- we or our partners and/or distributors may not establish or maintain effective marketing programs and create product awareness or brand identity;
 - our partners' and/or distributors' goals and objectives may not be consistent with our own;
 - we may not attract and retain key business development, technical and management personnel;
- we may not maintain existing, or obtain new, regulatory approvals for our technology and products;
 - we may not succeed in locating strategic partners and licensees of our technology;
 - we may not effectively manage our anticipated growth, if any; and
 - we may not be able to adequately protect our intellectual property.

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Any failure to successfully address these risks and uncertainties could seriously harm our business and prospects. We may not succeed given the technological, marketing, strategic and competitive challenges we face. In addition, because of our limited operating history and the early stage of market development for our SDC technology, we have limited insight into trends that may emerge and affect our business. Forecasting future revenues is difficult, especially because our technology is novel, and market acceptance of our products could change rapidly. In addition, our customers and potential customers in the foreseeable future are highly concentrated. Fluctuations in the buying patterns of our current or potential customers could significantly affect the level of our sales on a period to period basis. As a result, our financial results could fluctuate to an extent that may adversely affect our stock price. There are a number of other factors that could cause our financial results to fluctuate unexpectedly, including product sales, the mix of product sales, the cost of product sales, our ability for any reason to be able to meet demand, the achievement and timing of research and development and regulatory milestones, changes in expenses, including non-cash expenses such as the fair value of stock options granted, and manufacturing or supply issues, among other issues.

We are dependent on our core SDC technology and if our efforts to achieve or maintain market acceptance of our core SDC technology are not successful, we are unlikely to attain profitability

We have and are currently focusing substantially all of our time and financial resources in the development and commercialization of our core SDC technology. Although we believe SDC has applications in multiple industries, we expect that sales of SDC will constitute a substantial portion, or all, of our revenues in future periods. Any material decrease in the overall level of sales or expected sales of, or the prices for, SDC, whether as a result of competition, change in customer demand, or any other factor, would have a materially adverse effect on our business, financial condition and results of operations. We are marketing our new antimicrobial silver ion technology to industrial and consumer markets. These products have not yet been accepted into the marketplace, and may never be accepted. In addition, even if our products achieve market acceptance, we may not be able to maintain product sales or other forms of revenue over time if new products or technologies are introduced that are more favorably received than our products, are more cost-effective or otherwise render our products less attractive or obsolete.

We are subject to intense competition

Our SDC-based products compete in highly competitive markets dominated by prominent chemical and pharmaceutical companies. Most of our competitors have been in business for a longer period of time than us, have a greater number of products on the market and have greater financial and other resources than we do. Many of our competitors already have well established brands and distribution capabilities, and in some cases are able to leverage the sale of other products with more favorable terms for products competing with our own. We also have significantly fewer employees than virtually all of our competitors. Furthermore, recent trends in this industry are that large chemical and pharmaceutical companies are consolidating into a smaller number of very large entities, which further concentrates financial, technical and market strength and increases competitive pressure in the industry. If we directly compete with these very large entities for the same markets and/or products, their financial strength could prevent us from capturing a share of those markets. It is possible that developments by our competitors will make our technologies or products noncompetitive or obsolete. Our ability to compete will depend upon our ability, and the ability of our distributors and other partners, to develop brand recognition and novel distribution methods, and to displace existing, established and future products in our relevant target markets. We, or our distributors and partners, may not be successful in doing so, which would have a materially adverse effect on our business, financial condition and results of operations.

We have limited sales, marketing and product distribution experience

We have limited experience in the sales, marketing and distribution of our products and have previously relied primarily on product distribution arrangements and/or sales and marketing services provided by third parties.

We recently developed and obtained EPA registration of our proprietary new brand, PURE™ Hard Surface disinfectant and food contact surface sanitizer, to resume direct control of our sales of this product through a restructuring of our sales strategy and operations. We intend to market and sell our PURE Hard Surface product into consumer, commercial and institutional markets, including the food processing industry, though both alternative and traditional distribution channels. We have recently resumed direct control of our sales and marketing of this product, which requires that we enact various operational changes in our business, including making significant investments in our own sales and marketing organization, and we expect in some cases to pay sales commissions to sales representatives. We may not be able to establish such sales, marketing, and distribution capabilities. If we are not able to successfully sell, market and distribute this product directly, we may seek to establish product distribution arrangements with third parties, which may not be available on terms acceptable to us, if at all.

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We expect to rely on third parties to develop SDC-based products, and they may not do so successfully or diligently

We rely in part, and expect to rely in the future, on third parties to whom we license rights to our technology to develop and commercialize products containing SDC for many of the applications for which we believe SDC-based products have, or may have, market opportunities.

Our reliance on these third parties for development activities reduces our control over these activities. In such arrangements, we have relied, and expect in the future to rely, on the third party to fund and direct product development activities and appropriate regulatory filings. Any of these third parties may not be able to successfully develop such SDC-based products due to, among other factors, a lack of capital, a lack of appropriate diligence, insufficient devotion to sales efforts, a change in the evaluation by the third party of the market potential for SDC-based products, technical failures, and poorer than expected results from testing or trial use of any products that may be developed.

If we are unable to successfully develop or commercialize new applications of our SDC technology, our if such efforts are delayed, our operating results will suffer

In addition to its use on inanimate surfaces, we are pursuing applications of our SDC technology as a broad-spectrum antimicrobial for use in human and veterinary healthcare products. Any product developed may be delayed or may never achieve regulatory approval or be commercialized. Delays in achieving regulatory approvals for particular applications of our products could significantly impact our product development costs. If indications are commercialized, we may not receive a share of future revenues that provides an adequate return on our historical or future investment.

If we are not able to manage any growth we achieve effectively, we may not become profitable

If our efforts to achieve and maintain market acceptance of our SDC technology are successful, we will need to expand our business operations. There can be no assurance that we will have sufficient resources to do. There also can be no assurance that if we continue to invest in additional infrastructure, we will be effective in expanding our operations or that our systems, procedures or controls will be adequate to support such expansion. In addition, we would need to provide additional sales and support services to our partners, potentially in multiple markets. Failure to properly manage increased customer demands, if any, could result in a material adverse effect on customer satisfaction, our ability to meet our contractual obligations, and on our operating results.

The industries in which we operate are heavily regulated and we may be unable to compete effectively

We are focused on the marketing and continued development of our SDC antimicrobial technology. We believe that all products derived from our SDC technology, or products that may be derived from our SDC technology in future periods, require or will require approval by government agencies prior to marketing or sale in the U.S. or in foreign markets. Complying with applicable government regulations and obtaining necessary approvals can be, and has historically been, time consuming and expensive, due in part, we believe, to the novel nature of our technology, and regulatory review may involve delays or other actions adversely affecting the development, manufacture, marketing and sale of our products. While we cannot accurately predict the outcome of any pending or future regulatory review processes or the extent or impact of any future changes to legislation or regulations affecting review processes, we expect such processes to remain time consuming and expensive as we, or our partners, apply for approval to make new or additional efficacy claims for current products or to market new product formulations. Obtaining approvals for new SDC-based products in the U.S., or in markets outside the U.S., could take several years, or may never be accomplished.

Our SDC is a platform technology rather than a single use applied technology. As such, products developed from the platform fall under the jurisdiction of multiple U.S. and international regulatory agencies. Our disinfectant and sanitizer products are regulated in the U.S. by the EPA. In addition to the EPA, each of the 50 United States has its own government agencies that regulate the sale or shipment of our products into their state. We have obtained registration for these products from the EPA and all states into which such products are currently marketed and sold. We are required to meet certain efficacy, toxicity and labeling requirements and pay ongoing fees in order to maintain such registrations. We may not be able to maintain these registrations in the future, which may eliminate our continued ability to market and sell our products in some or all parts of the U.S. We also may not be able to obtain necessary registrations with the EPA and applicable states for other SDC disinfectant and sanitizer products that we or our partners may develop, which would limit our ability to sell any such products in the future.

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Some potential applications of SDC, such as those aimed at healthcare, veterinary and certain food preparation markets, may require approval by other government agencies prior to marketing or sale in the U.S. or in foreign markets, such as the FDA. Obtaining FDA approval is a complicated and expensive process and such approvals may never be obtained for any SDC products. If FDA approvals are obtained, the approvals may limit the uses for which SDC products may be marketed such that they may not be profitable to us, and the applicable products would be subject to pervasive and continuing regulation by the FDA that could lead to withdrawal of product approvals.

We intend to fund and manage certain of our EPA-regulated product development internally, in conjunction with our regulatory consultants and by partnering with other third parties. We have partnered, or intend to partner, with third parties who are seeking, or intend to seek, approvals to market SDC-based products in markets outside the U.S., and with other third parties who are developing FDA-regulated SDC-based products who, upon such development, would seek FDA approvals of such products. Our ability to market and sell our products is dependent on our and our partners' ability to obtain and maintain required registrations and approvals of applicable regulatory agencies. Failure by our partners or us to comply with applicable regulations could result in fines, or to the withdrawal of approval for us or our partners and distributors to market our products, in any or all jurisdictions, and/or our failure to successfully commercialize SDC or otherwise achieve revenues from sales of such products.

We are subject to substantial regulation related to quality standards applicable to our manufacturing and quality processes and our failure to comply with applicable quality standards could affect our ability to commercialize SDC products

The EPA and other applicable U.S. and foreign government agencies regulate our and our partners' systems and processes for manufacturing SDC-based products. These regulations require that we and our partners observe "good manufacturing practices" in order to ensure product quality, safety and effectiveness. Failure by us or our partners to comply with current or future governmental regulations and quality assurance guidelines could lead to temporary manufacturing shutdowns, product recalls or related field actions, product shortages, delays in product manufacturing, and significant cost to us. Efficacy or safety concerns and/or manufacturing quality issues with respect to our products or those of our partners could lead to product recalls, fines, withdrawal of approvals, declining sales, and/or our failure to successfully commercialize SDC or otherwise achieve revenue growth.

Pricing and supply issues may have a material impact on our margins and our ability to supply our customers

All of the supply ingredients used to manufacture our products are available from multiple suppliers. However, commodity prices for some ingredients can vary significantly and the margins that we are able to generate could decline if prices rise. For example, both silver and citric acid prices have been volatile in recent periods.

In addition to such commodities, for finished products we also rely on producers of specialized packaging inputs such as bottles and labels. Due to their specialized nature, the supply of such inputs can be periodically constrained, resulting in additional costs to obtain these items, which may in turn inhibit our ability to supply products to our customers.

We are generally unable to raise our product prices to our customers, partners and distributors quickly to maintain our margins, and significant price increases for key inputs could therefore have an adverse effect on our results of operations. Price increases can also result in lost sales, and any inability to supply our customers' orders can lead to lost future sales to such customers.

While we expect to be the sole source supplier of SDC concentrate, in future periods we may use third parties to blend, package and provide fulfillment activities for our finished products. We expect that our margins would be reduced by using such third parties, and our ability to maintain product quality may not be as extensive or effective as when we produce these products in our own facility(ies). Any quality control issues could lead to product recalls

and/or the loss of future sales, which would reduce our revenues and/or profits.

If we suffer negative publicity concerning the safety or efficacy of our products, our sales may be harmed

If concerns should arise about the safety or efficacy of any of our products that are marketed, regardless of whether or not such concerns have a basis in generally accepted science or peer-reviewed scientific research, such concerns could adversely affect the market for these products. Similarly, negative publicity could result in an increased number of product liability claims, whether or not these claims are supported by applicable law.

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If a natural or man-made disaster strikes our manufacturing facility, we may be unable to manufacture our products for a substantial amount of time and our sales and profitability may decline

Our sole manufacturing facility and the manufacturing equipment we use to produce our products would be costly to replace and could require substantial lead-time to repair or replace. The facility may be affected by natural or man-made disasters and in the event they were affected by a disaster, we would be forced to set up alternative production capacity, or rely on third party manufacturers to whom we would have to disclose our trade secrets. Although we possess insurance for damage to our property and the disruption of our business, such insurance may not be sufficient to cover all of our potential losses, may not continue to be available to us on acceptable terms, or at all, and may not address the marketing and goodwill consequences of our inability to provide products to meet customers' requirements.

If we are unable to obtain, maintain or defend patent and other intellectual property ownership rights relating to our technology, we or our collaborators and distributors may not be able to develop and market products based on our technology, which would have a material adverse impact on our results of operations

We rely and expect in the future to rely on a combination of patent, trademark, trade secret and copyright protections, and contractual restrictions, to protect the proprietary aspects of our technology and business.

Legal protections of our intellectual property and proprietary rights afford only limited protection. For instance, we currently own nine U.S. patents related to our SDC technology. The lives of these patents, and any patents that we may obtain in the future, are not indefinite, and the value to us of some or all of our patents may be limited by their term. Additionally, obtaining and maintaining patent protection depends on our compliance with various procedural, document submission, fee payment and other requirements imposed by government patent agencies, and our patent protection could be reduced or eliminated for non-compliance with these requirements. Furthermore, legal standards relating to the validity, enforceability and scope of patent protection and protections of other intellectual property and proprietary rights in the U.S. are uncertain. Additionally, to the extent that we operate internationally, the laws of foreign countries may not protect our proprietary rights to the same extent as the laws of the U.S. Many countries have a "first-to-file" trademark registration system, which may prevent us from registering or using our trademarks in certain countries if third parties have previously filed applications to register or have registered the same or similar trademarks. If certain of our proprietary rights cannot be, or are not sufficiently, protected by patents and trademark registrations, it could have a material adverse impact on our business and our ability to commercialize or license our technology and products.

Our own efforts to protect our intellectual property and other proprietary rights may also be insufficient. Despite efforts to protect our proprietary rights, our means of protecting such rights may not be adequate and unauthorized parties may attempt to copy aspects of our proprietary technology, obtain and use information that we regard as proprietary, or otherwise misappropriate our intellectual property. In addition, unpatented proprietary rights, including trade secrets and know-how, can be difficult to protect and may lose their value if they are independently developed by a third party or if their secrecy is lost. It is possible that, despite our efforts, competitors or others will create and use products, adopt service names similar to our service names or otherwise violate or misappropriate our proprietary rights. The infringement of such rights could have a material negative impact on our business and on our results of operations.

Litigation may be necessary to enforce our intellectual property and other proprietary rights, which would be expensive and could consume time and other resources. The result of any such litigation may be the court's ruling that that our patents or other intellectual property rights are invalid and/or should not be enforced. Additionally, even if the validity of such rights is upheld, the court could refuse to stop a third party's infringing activity on the ground that such activities do not infringe our rights. The U.S. Supreme Court has recently revised certain tests regarding granting patents and assessing the validity of patents to make it more difficult to obtain patents. As a consequence, issued

patents may be found to contain invalid claims according to the newly revised standards. Some of our patents may be subject to challenge and subsequent invalidation or significant narrowing of claim scope in a reexamination proceeding, or during litigation, under the revised criteria.

Third parties may claim that we infringe their proprietary rights and may prevent us from manufacturing and selling some of our products

Our manufacture, use and sale of SDC-based products may subject us to lawsuits relating to the validity and infringement of patents or other proprietary rights of third parties. Litigation may be costly and time-consuming, and could divert the attention of our management and technical personnel. If we are found to have violated the trademark, trade secret, copyright, patent or other intellectual property or proprietary rights of others, such a finding could result in the need to cease use of a trademark, trade secret, copyrighted work or patented invention in our business and the obligation to pay a substantial amount for past infringement. If the rights holders are willing to permit us to continue to use their intellectual property rights, it may be necessary for us to enter into license arrangements with unfavorable terms and pay substantial amounts in royalty and other license fees. Either having to cease use or pay such amounts could prevent us from manufacturing and selling our products, which could make us much less competitive in our industry and have a material adverse impact on our business, operating results and financial condition.

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We may become subject to product liability claims

As a business that manufactures and markets products for use by consumers and institutions, we may become liable for any damage caused by our products, whether used in the manner intended or not. Regardless of merit or potential outcome, product liability claims against us may result in, among other effects, the inability to commercialize our products, impairment of our business reputation, and distraction of management's attention from our primary business. If we cannot successfully defend ourselves against product liability claims we could incur substantial liabilities. Although we maintain general and product liability insurance, our insurance may not cover potential claims and may not be adequate to indemnify for liabilities that may be imposed. Any imposition of liability that is not covered by insurance or is in excess of insurance coverage could harm our business and operating results.

We are currently involved in litigation, and such existing litigation, other litigation or the actions of regulatory authorities may harm our business or otherwise distract our management

Substantial, complex or extended litigation could cause us to incur major expenditures and would distract our management. We are currently involved in litigation with Richmond Sciences, LLC and Richmond Holdings, LLC. On June 29, 2011, we filed suit against Richmond Sciences, LLC asserting various causes of action to collect on an outstanding invoice. Richmond Sciences, LLC and Richmond Holdings, LLC filed a cross-complaint for damages against us asserting contract, tort and statutory (trade secret) claims arising out of business dealings with us. We then filed a cross-complaint for compensatory and punitive damages against both Richmond entities asserting contract and fraud claims. We intend to vigorously pursue our claims and defend against the cross-claims of the Richmond entities, which may divert management's attention and consequently have a negative impact on our business. Further, although we are unable to determine the length of the dispute or the likelihood or amount of any adverse judgment in this litigation and resources, our involvement in this litigation could be costly and adversely affect our financial condition.

Other lawsuits or actions could from time to time be filed against us and/or our executive officers and directors. For example, lawsuits by employees, former employees, stockholders, partners, customers, or others, or actions taken by regulatory authorities, could be very costly and substantially disrupt our business. Such lawsuits and actions are not uncommon, and we may not be able to resolve such disputes or actions on terms favorable to us, and there may not be sufficient capital resources available to defend such actions effectively, or at all.

We could be negatively affected as a result of a threatened proxy fight

We have received a notice from Richmond Corporation, or Richmond, and such notice, the Richmond Notice, announcing its intended nomination of six individuals for election to our Board of Directors at our 2012 annual meeting. In the Richmond Notice, Richmond confirmed its ownership of shares of our common stock, which shares represent less than one half of one percent of our outstanding common stock. If a proxy contest results from these actions by Richmond, our business could be adversely affected because:

- responding to proxy contests and other actions by insurgent stockholders can be costly and time-consuming, disrupting our operations and diverting the attention of management and our employees;
- perceived uncertainties as to our future direction may impact our existing and potential collaborations or strategic relationships and may make it more difficult to attract and retain qualified personnel; and
- if individuals are elected to our Board of Directors with a specific agenda, it may adversely affect our ability to effectively and timely implement our strategic plan.

Maintaining compliance with our obligations as a public company may strain our resources and distract management, and if we do not remain compliant our stock price may be adversely affected

Our common stock is registered under the Exchange Act. It is therefore subject to the information, proxy solicitation, insider trading and other restrictions and requirements of the SEC under the Exchange Act. Both the U.S. Congress and the SEC continue to issue new and proposed rules, and complying with existing and new rules has caused, and will continue to cause, us to devote significant financial and other resources to maintain our status as a public company. In addition, in April 2008 we obtained a listing of our common stock on the NASDAQ Capital Market, adding the additional cost and administrative burden of maintaining such a listing. These additional regulatory costs and requirements will reduce our future profits or increase our future losses, and an increasing amount of management time and effort will be needed to meet our regulatory obligations.

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We are required to evaluate our internal control systems in order to allow management to report on our internal controls as required by Section 404 of the Sarbanes-Oxley Act of 2002, and our management is required to attest to the adequacy of our internal controls. Recent SEC pronouncements suggest that in the next several years we may be required to report our financial results using new International Financial Reporting Standards, replacing GAAP, which would require us to make significant investments in training, hiring, consulting and information technology, among other investments. All of these and other reporting requirements and heightened corporate governance obligations that we face, or will face, will further increase the cost to us, perhaps substantially, of remaining compliant with our obligations under the Exchange Act and other applicable laws, including the Sarbanes-Oxley Act and the Dodd-Frank Act of 2010. In order to meet these incremental obligations, we will need to invest in our corporate and accounting infrastructure and systems, and acquire additional services from third party auditors and advisors. As a result of these requirements and investments, we may incur significant additional expenses and may suffer a significant diversion of management's time. There is no guarantee that we will be able to continue to meet these obligations in a timely manner, and we could therefore be subject to sanctions or investigation, or the delisting of our common stock, by regulatory authorities such as the SEC or the NASDAQ Capital Market. Any such actions could adversely affect the market price of our common stock, perhaps significantly.

Our publicly-filed reports are reviewed from time to time by the SEC, and any significant changes or amendments required as a result of any such review may result in material liability to us and may have a material adverse impact on the trading price of our common stock

The reports and other securities filings of publicly-traded companies are subject to review by the SEC from time to time for the purpose of assisting companies in complying with applicable disclosure requirements. The SEC is required, pursuant to the Sarbanes-Oxley Act of 2002, to undertake a comprehensive review of a company's reports at least once every three years, although an SEC review may be initiated at any time. While we believe that our previously filed SEC reports comply, and we intend that all future reports will comply, in all material respects with the published rules and regulations of the SEC, we could be required to modify, amend or reformulate information contained in our filings as a result of any SEC review. Any modification, amendment or reformulation of information contained in such reports could be significant and result in material liability to us and have a material adverse impact on the trading price of our common stock.

We are dependent on our management team, and we recently appointed a new Chief Financial Officer

Our success depends largely upon the continued services of our executive officers and other key personnel. Our executive officers and key personnel could terminate their employment with us at any time without notice and without penalty.

We do not maintain key person life insurance policies on our executive officers or other employees, other than Michael L. Krall, our President and Chief Executive Officer. The policy we have on Mr. Krall would likely not provide a benefit sufficient to offset the financial losses resulting from the loss of Mr. Krall's future services. The loss of one or more of our executive officers or key employees could seriously harm our business, results of operations, financial condition, and/or the market price of our common stock. We cannot assure you that in such an event we would be able to recruit qualified personnel able to replace these individuals in a timely manner, or at all, on terms acceptable to either us or to any qualified candidate.

On June 9, 2011, we announced the appointment of Craig Johnson as our Chief Financial Officer, which became effective August 1, 2011. With his appointment, Mr. Johnson also serves as our Principal Financial Officer and Principal Accounting Officer. Mr. Johnson has not previously worked with our existing executive management team. This management transition may result in some disruption of our business. If our new Chief Financial Officer is unable to work with our existing management team to implement our strategies, manage our operations and accomplish our objectives, our business, operations and financial results could be impaired.

Because competition for highly qualified business development and bioengineering personnel is intense, we may not be able to attract and retain the employees we need to support our planned growth

To successfully meet our objectives, we must continue to attract and retain highly qualified business development and bioengineering personnel with specialized skill sets focused on the industries in which we compete, or intend to compete. Competition for qualified business development and bioengineering personnel can be intense. Our ability to meet our business development objectives will depend in part on our ability to recruit, train and retain top quality people with advanced skills who understand our technology and business. In addition, it takes time for our new personnel to become productive and to learn our business. If we are unable to hire or retain qualified business development and bioengineering personnel, it will be difficult for us to sell our products or to license our technology, or to achieve or maintain regulatory approvals, and we may experience a shortfall in revenue and not achieve our anticipated growth.

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We may engage in strategic transactions that could impact our liquidity, increase our expenses and present significant distractions to our management

From time to time we may consider engaging in strategic transactions, such as acquisitions of companies, asset purchases and out-licensing or in-licensing of products, product candidates or technologies. Any such transaction may require us to incur non-recurring or other charges, may increase our near and long-term expenditures and may pose significant integration challenges or disrupt our management or business, which could adversely affect our operations and financial results. For example, these transactions may entail numerous operational and financial risks, including, among others, exposure to unknown liabilities, disruption of our business and diversion of our management's time and attention in order to develop acquired products, product candidates or technologies, difficulty and cost in combining the operations and personnel of any acquired businesses with our operations and personnel, and inability to retain key employees of any acquired businesses. Accordingly, although we may not choose to undertake or may not be able to successfully complete any transactions of the nature described above, any transactions that we do complete could have a material adverse effect on our business, results of operations, financial condition and prospects.

We may invest or spend our cash in ways with which you may not agree or in ways which may not yield a significant return

Our management has considerable discretion in the use of our cash. Our cash may be used for purposes that do not increase our operating results or market value. Until the cash is used, it may be placed in investments that do not produce significant income or that may lose value. The failure of our management to invest or spend our cash effectively could result in unfavorable returns and uncertainty about our prospects, each of which could cause the price of our common stock to decline.

We may not be able to utilize all, or any, of our tax net operating loss carry-forwards and our future after-tax earnings, if any, could be reduced

At July 31, 2011, we had federal and California tax net operating loss carry-forwards of approximately \$64.7 million and \$54.6 million, respectively. Utilization of these net operating loss carry-forwards may be subject to a substantial annual limitation due to ownership change limitations that may have occurred or that could occur in the future, as required by Section 382 of the Internal Revenue Code as well as similar state provisions. These ownership changes may limit the amount of net operating loss carry-forwards that can be utilized annually to offset future taxable income and tax, respectively. In general, an ownership change, as defined by Section 382 of the Internal Revenue Code, results from a transaction or series of transactions over a three-year period resulting in an ownership change of more than 50 percentage points of the outstanding stock of a company by certain stockholders or public groups. Since our formation, we have raised capital through the issuance of capital stock on several occasions (both before and after our initial public offering in 1996) which, combined with the purchasing stockholders' subsequent disposition of those shares, may have resulted in such an ownership change, or could result in an ownership change in the future based upon subsequent disposition. While we believe that we have not experienced an ownership change, the pertinent tax rules related thereto are complex and subject to varying interpretations, and thus complete assurance cannot be provided that the taxing authorities would not take an alternative position.

Our current federal tax loss carry-forwards began expiring in the year ended July 31, 2011 and, unless previously utilized, will completely expire in the year ending July 31, 2030. In the years ending July 31, 2012 and 2013, \$3.3 million of our federal net operating loss carry-forwards will expire, and the balance of our current federal net operating loss carry-forwards will expire between July 31, 2018 and July 31, 2030. Our California tax loss carry-forwards will begin to expire in the year ending July 31, 2014, and will completely expire in the year ending July 31, 2030. If we are unable to earn sufficient profits to utilize the carry-forwards by these dates, they will no longer be available to offset future profits, if any.

We are subject to tax audits by various tax authorities in multiple jurisdictions

From time to time we may be audited by tax authorities to whom we are subject. Any assessment resulting from such audits, if any, could result in material changes to our past or future taxable income, tax payable or deferred tax assets, and could require us to pay penalties and interest that could materially adversely affect our financial results.

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SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement, the accompanying prospectus, the documents we have filed with the SEC that are incorporated herein by reference contain forward-looking statements within the meaning of Section 27A of the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended. These statements are based on our current expectations, assumptions, estimates and projections about our business and our industry, and involve known and unknown risks, uncertainties and other factors that may cause our results, levels of activity, performance or achievement to be materially different from any future results, levels of activity, performance or achievements expressed or implied by the forward-looking statements.

In some cases, you can identify forward-looking statements by terms such as “anticipate,” “believe,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “will,” “would” and similar expressions intended to identify forward-looking statements. While we believe that we have a reasonable basis for each forward-looking statement, we caution you that these statements are based on a combination of facts and factors currently known by us and our projections of the future, about which we cannot be certain. We discuss many of these risks, uncertainties and other factors in greater detail under the heading “Risk Factors” contained in this prospectus supplement. Given these risks, uncertainties and other factors, you should not place undue reliance on these forward-looking statements. Also, these forward-looking statements represent our estimates and assumptions only as of the date such forward-looking statements are made. You should read carefully both this prospectus supplement and the accompanying prospectus, together with the information incorporated herein by reference as described under the heading “Where You Can Find More Information” in this prospectus supplement and the accompanying prospectus, completely and with the understanding that our actual future results may be materially different from what we expect. We hereby qualify all of our forward-looking statements by these cautionary statements.

Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in these forward-looking statements, even if new information becomes available in the future.

USE OF PROCEEDS

We estimate that the net proceeds to us from the sale of the securities offered pursuant to this prospectus will be up to \$2,300,000 over an approximately 36-month period, assuming that we sell all of the shares offered under this prospectus supplement and taking into account shares issued to Lincoln Park at no cost to Lincoln Park as consideration for its commitment to purchase the other shares of our common stock offered pursuant to this prospectus supplement, a cash fee that may be paid by us to Wharton Capital Markets LLC, and other estimated fees and expenses. See “Plan of Distribution” elsewhere in this prospectus supplement.

We expect to use the net proceeds from this offering for general corporate purposes, which may include, among other things, sales and marketing efforts relating to our products and product candidates.

The amounts and timing of our actual expenditures will depend on numerous factors, including the status of our product sales and marketing efforts, the amount of proceeds actually raised in this offering, and the amount of cash generated through our existing strategic collaborations and any additional strategic collaborations into which we may enter. Accordingly, our management will have significant flexibility in applying the net proceeds of this offering.

Until the funds are used as described above, we intend to invest the net proceeds from this offering in interest-bearing, investment grade securities.

DILUTION

Our net tangible book value as of October 31, 2011 was approximately \$1,132,000, or \$0.03 per share. Net tangible book value per share is determined by dividing our total tangible assets, less total liabilities, by the number of shares of our common stock outstanding as of October 31, 2011.

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After giving effect to our sale of 5,208,333 shares of our common stock in this offering at an assumed offering price of \$0.48 per share (the last reported sale price of our common stock on December 14, 2011) not including the shares to be issued to Lincoln Park at no cost as a fee for its commitment to purchase shares of our common stock, our as adjusted net tangible book value as of October 31, 2011 would have been approximately \$3,432,000, or \$0.07 per share. This represents an immediate increase in net tangible book value of \$0.04 per share to existing stockholders and immediate dilution in net tangible book value of \$0.41 per share to new investors participating in this offering at the offering price. The following table illustrates this dilution on a per share basis:

Assumed offering price per share	\$0.48
Net tangible book value per share as of October 31, 2011	\$0.03
Increase per share attributable to new investors	\$0.04
As adjusted net tangible book value per share after this offering	\$0.07
Dilution per share to new investors	\$0.41

The above discussion and table are based on 41,148,206 shares of common stock issued and outstanding as of October 31, 2011 and exclude:

- 1,509,100 shares of our common stock issuable upon exercise of warrants outstanding on December 13, 2011, all of which are exercisable at prices ranging from \$2.06 to \$8.60 per share;
- 2,887,750 shares of our common stock issuable upon exercise of options outstanding as of December 13, 2011, of which approximately 1,772,238 shares are exercisable; and
- 1,733,550 shares of our common stock available for future grants under our stock option plan as of December 13, 2011.
- 373,544 shares of our common stock issued between November 1, 2011 and December 13, 2011.

To the extent that outstanding options or warrants are exercised, you will experience further dilution. In addition, we may choose to raise additional capital due to market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. To the extent that additional capital is raised through the sale of equity or convertible debt securities, the issuance of these securities could result in further dilution to our stockholders.

DESCRIPTION OF SECURITIES WE ARE OFFERING

In this offering, we are offering a maximum of \$2,575,000 in aggregate value of shares of our common stock, of which (i) 156,904 shares of our common stock are to be issued to Lincoln Park on the date of this prospectus supplement, at no cost to Lincoln Park, as consideration for its commitment to purchase our common stock pursuant to the \$2.5M Purchase Agreement, (ii) 1,347,709 shares of our common stock to be sold to Lincoln Park at a price per share of \$0.371 for an aggregate amount of \$500,000, and (iii) up to \$2,000,000 of shares of our common stock (subject to certain limitations) may be sold to Lincoln Park over a 36-month period, from time to time and at our discretion, at a per share purchase price, or the Purchase Price, equal to the lower of (a) the lowest sale price for our common stock reported on the NASDAQ Capital Market on the purchase date of such shares or (b) the arithmetic average of the three lowest closing sale prices for our common stock during the 12 consecutive business days ending on the business day immediately preceding the purchase date of such shares.

The material terms and provisions of our common stock and each other class of our securities that may qualify or limit our common stock are described under the caption "Description of Capital Stock" starting on page 7 of the

accompanying prospectus. As of December 13, 2011, 41,521,750 shares of our common stock were outstanding.

PLAN OF DISTRIBUTION

Pursuant to this prospectus supplement, we are offering up to \$2,575,000 in shares of our common stock that will be issued by us directly to Lincoln Park Capital Fund, LLC under the \$2.5M Purchase Agreement.

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Under the terms of the \$2.5M Purchase Agreement, upon the satisfaction of all of the conditions to our right to commence sales under the \$2.5M Purchase Agreement, which we refer to as the Commencement, Lincoln Park will initially purchase 1,347,709 shares of our common stock at a price per share of \$0.371 for an aggregate amount of \$500,000. Thereafter, beginning five business days after the date of the Commencement, we may, from time to time and at our sole discretion but no more frequently than every two business days during the 36-month period commencing on the date of the Commencement, direct Lincoln Park to purchase up to an aggregate amount of \$2,000,000 in shares of our common stock (subject to certain limitations) at the Purchase Price. If on the date of a purchase the closing sale price of our common stock is less than \$1.50, then we may direct Lincoln Park to purchase up to 200,000 shares on such date; if on the date of a purchase the closing sale price of our common stock equals or exceeds \$1.50, then we may direct Lincoln Park to purchase up to 250,000 shares of our common stock on such date; and if on the date of a purchase the closing sale price of our common stock equals or exceeds \$2.50, then we may direct Lincoln Park to purchase up to 300,000 shares of our common stock on such date. There is no upper limit on the price per share that Lincoln Park must pay for our common stock under the \$2.5M Purchase Agreement, but in no event will shares be sold to Lincoln Park under such agreement at a price of less than \$0.25 per share.

The \$2.5M Purchase Agreement limits our sales of shares of common stock to Lincoln Park to the lesser of: (a) the maximum number of shares of our common stock that we may issue without breaching our obligations under applicable rules of The NASDAQ Stock Market or obtaining stockholder approval under such rules, and (b) the maximum number of shares of our common stock that we may issue without exceeding the limitations set forth in General Instruction I.B.6. of Form S-3 and the interpretive guidance of the SEC applicable to these transactions (such lesser number of shares is referred to as the Maximum Share Cap). As of November 1, 2011, the aggregate market value of our outstanding common stock held by non-affiliates was approximately \$26,867,000, based on 41,148,206 shares of outstanding common stock, of which 38,380,775 shares were held by non-affiliates, and a per share price of \$0.70 based on the closing sale price of our common stock on such date. During the period of 12 calendar months immediately prior to, and including, the date of this prospectus supplement, we have sold 3,973,664 shares of our common stock pursuant to General Instruction I.B.6. of Form S-3. Accordingly, as of November 1, 2011, based on a per share price of \$0.70, we could sell a maximum of approximately \$8,956,000 (or 12,794,285 shares) of our common stock pursuant to General Instruction I.B.6. of Form S-3 and the interpretive guidance of the SEC applicable to these transactions.

It is anticipated that shares registered in this offering will be sold over a period of up to 36 months from the date of the Commencement. The sale by Lincoln Park of a significant amount of shares registered in this offering at any given time could cause the market price of our common stock to decline and to be highly volatile. Lincoln Park may ultimately purchase all, some or none of the shares of common stock offered hereby. After it has acquired such shares, it may sell all, some or none of such shares. Therefore, sales by us to Lincoln Park of the shares registered in this offering may result in substantial dilution to the interests of other holders of our common stock. However, we have the right to control the timing and amount of any sales of our shares to Lincoln Park.

The number of shares ultimately offered for sale by Lincoln Park under this prospectus supplement is dependent upon the number of shares purchased by Lincoln Park under the \$2.5M Purchase Agreement. The following table sets forth the amount of proceeds we would receive from Lincoln Park from the sale of shares that are registered in this offering at varying purchase prices (without accounting for certain fees and expenses):

Assumed Average Purchase Price	Number of Registered Shares to be Issued if Full Purchase (1)	Percentage of Outstanding Shares After Giving Effect to the Issuance to Lincoln Park (2)	Proceeds from the Sale of Shares to Lincoln Park Under the \$2.5M Purchase Agreement (3)
\$0.25(4)	10,000,000	19.65%	\$2,500,000

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\$0.48(5)	5,208,333	11.44%	\$2,500,000
\$1.00	2,500,000	6.01%	\$2,500,000
\$2.50	1,000,000	2.71%	\$2,500,000
\$5.00	500,000	1.56%	\$2,500,000

-
- (1) Excludes the 156,904 shares to be issued to Lincoln Park as commitment shares.
- (2) The denominator is based on 41,521,750 shares outstanding as of December 13, 2011, adjusted to include the 156,904 shares to be issued to Lincoln Park as commitment shares in connection with this offering but excluding the 470,711 commitment shares issued to Lincoln Park in connection with the \$7.5M Purchase Agreement, and the number of shares set forth in the adjacent column which we would have sold to Lincoln Park. The numerator also includes the 156,904 shares to be issued to Lincoln Park as commitment shares in connection with this offering and excludes the 470,711 commitment shares issued to Lincoln Park in connection with the \$7.5M Purchase Agreement, and is based on the number of shares issuable under the \$2.5M Purchase Agreement at the corresponding assumed purchase price set forth in the adjacent column. The number of shares in such column does not include shares that may be issued to Lincoln Park which are not registered in this offering.
- (3) Amount of proceeds excludes certain fees to be paid by us to Wharton Capital Markets LLC for its assistance in arranging our agreements with Lincoln Park.
- (4) Under the \$2.5M Purchase Agreement, we may not sell and Lincoln Park may not purchase any shares in the event the purchase price of such shares is below \$0.25.
- (5) The closing sale price of our shares on December 14, 2011.

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Events of default under the \$2.5M Purchase Agreement include the following:

- the effectiveness of the registration statement, of which this prospectus supplement and accompanying prospectus are a part, lapses for any reason (including, without limitation, the issuance of a stop order), or the prospectus supplement and accompanying prospectus are unavailable for sale by us or the resale by Lincoln Park of our common stock offered hereby, and such lapse or unavailability continues for a period of ten (10) consecutive business days or for more than an aggregate of thirty (30) business days in any 365-day period;
- suspension by our principal market of our common stock from trading for a period of ten (10) consecutive business days;
- the de-listing of our common stock from our principal market, provided our common stock is not immediately thereafter trading on the New York Stock Exchange, the NASDAQ Global Market, the NASDAQ Global Select Market, the NASDAQ Capital Market or the NYSE Amex;
- the transfer agent's failure for five (5) business days to issue to Lincoln Park shares of our common stock which Lincoln Park is entitled to receive under the \$2.5M Purchase Agreement;
- any breach of the representations or warranties or covenants contained in the \$2.5M Purchase Agreement or any related agreements which has or which could have a material adverse effect on us subject to a cure period of five (5) business days;
 - any participation or threatened participation in insolvency or bankruptcy proceedings by or against us; or
 - if at any time after the date of Commencement, the Maximum Share Cap is reached.

Lincoln Park does not have the right to terminate the \$2.5M Purchase Agreement upon any of the events of default set forth above. During an event of default, all of which are outside the control of Lincoln Park, shares of our common stock cannot be sold by us or purchased by Lincoln Park under the terms of the \$2.5M Purchase Agreement.

We may suspend the sale of shares to Lincoln Park pursuant to this prospectus supplement for certain periods of time for certain reasons, including if this prospectus supplement is required to be supplemented or amended to include additional material information.

This offering will terminate on the date that all shares offered by this prospectus supplement have been sold to Lincoln Park or, if earlier, the expiration or termination of the \$2.5M Purchase Agreement. We have the right to terminate the \$2.5M Purchase Agreement at any time, at no cost to us. In the event of bankruptcy proceedings by or against us, the \$2.5M Purchase Agreement will automatically terminate without action of any party.

Pursuant to the \$2.5M Purchase Agreement, we will issue to Lincoln Park, as consideration for its commitment to purchase our common stock under such agreement, 156,904 shares of our common stock, all of which are covered by this prospectus supplement.

In connection with the sale of our common stock to Lincoln Park pursuant to the \$2.5M Purchase Agreement and the \$7.5M Purchase Agreement, subject to our receipt of written confirmation that the Corporate Finance Department of the Financial Industry Regulatory Authority, Inc., or FINRA, has determined not to raise any objection with respect to the fairness or reasonableness of the compensation terms of our arrangement with Wharton, we have agreed to pay a cash fee to Wharton Capital Markets LLC, or Wharton, pursuant to an engagement letter with Wharton dated December 8, 2011, in an amount equal to 6% of the aggregate gross proceeds to us from the issuance and sale of shares to be offered pursuant to our agreements with Lincoln Park. Such amounts will become due and payable to

Wharton at the time that we actually receive funds from Lincoln Park pursuant to such agreements, provided that we have received such written confirmation of no objections from FINRA. Additionally, upon our receipt of such written confirmation of no objections from FINRA, we have agreed to issue to Wharton or its designee a warrant to purchase 200,000 shares of our common stock with an exercise price of 110% of the closing sale price of our common stock on the date of the issuance of such warrant. Neither the warrant to be issued to Wharton nor the shares to be issued thereunder are registered for sale or resale pursuant to this prospectus supplement. We will pay the filings fees associated with the filing to be made by Wharton with FINRA in connection with this transaction.

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As of the date of the \$2.5M Purchase Agreement, Lincoln Park Capital Fund, LLC, beneficially owned 470,711 shares of our common stock. Josh Scheinfeld and Jonathan Cope, the Managing Members of Lincoln Park Capital, LLC, the manager of Lincoln Park Capital Fund, LLC, are deemed to be beneficial owners of all of the shares of common stock owned by Lincoln Park Capital Fund, LLC. Messrs. Cope and Scheinfeld have shared voting and investment power over the shares being offered under the prospectus supplement filed with the SEC in connection with the transactions contemplated under the \$2.5M Purchase Agreement. Lincoln Park Capital, LLC is not a licensed broker dealer or an affiliate of a licensed broker dealer.

Lincoln Park is an “underwriter” within the meaning of Section 2(a)(11) of the Securities Act. Lincoln Park has informed us that it will use an unaffiliated broker-dealer to effectuate all sales, if any, of the common stock that it may purchase from us pursuant to the \$2.5M Purchase Agreement. Such sales will be made on the NASDAQ Capital Market at prices and at terms then prevailing or at prices related to the then current market price. Each such unaffiliated broker-dealer will be an underwriter within the meaning of Section 2(a)(11) of the Securities Act. Lincoln Park has informed us that each such broker-dealer will receive commissions from Lincoln Park that will not exceed customary brokerage commissions. In compliance with the guidelines of the Financial Industry Regulatory Authority, Inc., 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 supplement.

We know of no existing arrangements between Lincoln Park, any other shareholder, broker, dealer, underwriter, or agent relating to the sale or distribution of the shares offered by this prospectus supplement. At the time a particular offer of shares is made, a prospectus supplement, if required, will be distributed that will set forth the names of any agents, underwriters, or dealers and any other required information.

We will pay the expenses incident to the registration, offering, and sale of the shares to Lincoln Park. We have agreed to indemnify Lincoln Park and certain other persons against certain liabilities in connection with the offering of shares of common stock offered hereby, including liabilities arising under the Securities Act or, if such indemnity is unavailable, to contribute amounts required to be paid in respect of such liabilities. Lincoln Park has agreed to indemnify us against liabilities under the Securities Act that may arise from certain written information furnished to us by Lincoln Park specifically for use in this prospectus or, if such indemnity is unavailable, to contribute amounts required to be paid in respect of such liabilities.

Lincoln Park represented to us that at no time prior to the \$2.5M Purchase Agreement has Lincoln Park or its agents, representatives or affiliates engaged in or effected, in any manner whatsoever, directly or indirectly, any short sale (as such term is defined in Rule 200 of Regulation SHO of the Exchange Act) of our common stock or any hedging transaction, which establishes a net short position with respect to the Company's common stock. Lincoln Park agreed that during the term of the \$2.5M Purchase Agreement, it, its agents, representatives or affiliates will not enter into or effect, directly or indirectly, any of the foregoing transactions.

We have advised Lincoln Park that it is required to comply with Regulation M promulgated under the Exchange Act. With certain exceptions, Regulation M precludes the selling shareholder, any affiliated purchasers, and any broker-dealer or other person who participates in the distribution from bidding for or purchasing, or attempting to induce any person to bid for or purchase any security which is the subject of the distribution until the entire distribution is complete. Regulation M also prohibits any bids or purchases made in order to stabilize the price of a security in connection with the distribution of that security. All of the foregoing may affect the marketability of the shares offered by this prospectus supplement.

The transfer agent for our common stock is Computershare Trust Company, N.A. Its address is 350 Indiana Street, Suite 800, Golden, Colorado 90401, and its telephone number is (303) 262-0600.

Our common stock is listed on the NASDAQ Capital Market under the symbol "PURE".

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LEGAL MATTERS

The validity of the securities offered by this prospectus supplement will be passed upon for us by Morrison & Foerster llp, San Diego, California.

EXPERTS

The financial statements incorporated by reference in this prospectus supplement have been so incorporated by reference in reliance upon the reports of Mayer Hoffman McCann P.C., independent registered public accounting firm, given on their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and special reports, proxy statements and other information with the SEC. You may read and copy any materials we file at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information about the operation of 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 Pure Bioscience, Inc. The SEC's Internet site can be found at www.sec.gov.

INCORPORATION BY REFERENCE

The SEC allows us to incorporate by reference the information we file with it, which means that we can disclose important information to you by referring you to another document that we have filed separately with the SEC. You should read the information incorporated by reference because it is an important part of this prospectus. We incorporate by reference the following information or documents that we have filed with the SEC (Commission File No. 001-14468):

- our annual report on Form 10-K for the fiscal year ended July 31, 2011, filed with the SEC on October 31, 2011;
- our quarterly report on Form 10-Q for the fiscal quarter ended October 31, 2011, filed with the SEC on December 15, 2011;
- our current report on Form 8-K dated December 14, 2011, filed with the SEC on December 15, 2011; and
- the description of our common stock and our preferred stock contained in our Registration Statement on Form 8-A filed with the SEC on March 31, 2008, including any amendment or report filed for the purpose of updating such description.

Any information in any of the foregoing documents will automatically be deemed to be modified or superseded to the extent that information in this prospectus or in a later filed document that is incorporated or deemed to be incorporated herein by reference modifies or replaces such information.

We also incorporate by reference any future filings (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) made with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, until we file a post-effective amendment that indicates the termination of the offering of the securities made by this prospectus. Information in such future filings updates and supplements the information provided in this prospectus. Any statements in any such future filings will automatically be deemed to

modify and supersede any information in any document we previously filed with the SEC that is incorporated or deemed to be incorporated herein by reference to the extent that statements in the later-filed document modify or replace such earlier 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: Pure Bioscience, Inc., Attention: Investor Relations, 1725 Gillespie Way, El Cajon, California, 92020, telephone (619) 596-8600.

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PROSPECTUS

PURE BIOSCIENCE
\$15,000,000
COMMON STOCK
PREFERRED STOCK
WARRANTS
UNITS

From time to time, we may offer up to \$15,000,000 of any combination of the securities described in this prospectus, either individually or in units. We may also offer common stock upon conversion of preferred stock, or common stock or preferred stock upon the exercise of warrants.

We will provide the specific terms of these offerings and securities in one or more supplements 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 buying any of the securities being offered.

Our common stock is traded on the NASDAQ Capital Market under the symbol "PURE." On April 9, 2009, the last reported sale price of our common stock on the NASDAQ Capital Market was \$1.95. The applicable prospectus supplement will contain information, where applicable, as to any other listing, if any, on the NASDAQ Capital Market or any securities market or other exchange of the securities covered by the applicable prospectus supplement.

On May 4, 2009, the aggregate market value of our outstanding common stock held by non-affiliates was \$67,570,592. We have not previously offered pursuant to General Instruction I.B.6. of Form S-3 any securities during the prior twelve calendar month period that ends on, and includes, the date of this prospectus.

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.

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

The securities may be sold directly by us 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 and over-allotment options will be set forth in a prospectus supplement. The price to the public of such securities and the net proceeds that we expect to receive from such sale will also be set forth in a prospectus supplement.

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.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission utilizing a “shelf” registration process. Under this shelf registration process, we may offer shares of our common stock and preferred stock, and/or various series of warrants to purchase any of such securities, either individually or in units, in one or more offerings, up to a total dollar amount of \$15,000,000. 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 contain more specific information about the terms of those securities. We may also authorize one or more free writing prospectuses to be provided to you that may contain material information relating to these offerings. We may also add, update or change in the prospectus supplement (and in any related free writing prospectus that we may authorize to be provided to you) any of the information contained in this prospectus or in the documents that we have incorporated by reference into this prospectus. We urge you to carefully 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 Additional Information,” before buying any of the securities being 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 anyone to provide you with different information. No dealer, salesperson or other person is authorized to give any information or to represent anything not contained 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 on any unauthorized information or representation. This prospectus is an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. You should assume that the information in this prospectus, any applicable prospectus supplement or any related free writing prospectus is accurate only as of the date on the front of the document and that any information we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this

prospectus, any applicable prospectus supplement or any related free writing prospectus, or any sale of a security.

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.”

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PURE BIOSCIENCE

We began as a provider of pharmaceutical water purification products for the pharmacy market. Our historical revenues were primarily derived from the Water Treatment business prior to its sale in May 2005; however, our business is now focused on investing in broader markets with novel, proprietary bioscience products based upon our flagship bioscience technology, silver dihydrogen citrate (“SDC”). SDC is an electrolytically generated source of stabilized ionic silver that can serve as the basis for a broad range of products in diverse markets. SDC liquid is colorless, odorless, tasteless, non-caustic and formulates well with other compounds. As a platform technology, our SDC-based antimicrobial is distinguished from competitors in the marketplace because of its efficacy and low toxicity. We are producing, and plan to expand the production of, pre-formulated, ready-to-use products for private label distribution, as well as varying strengths of SDC concentrate as an additive or raw material for inclusion in other companies’ products, including as an active pharmaceutical ingredient. In addition to SDC, we have obtained patent protection for ionic silver-based molecular entities that utilize 14 organic acids other than citric acid.

We are at an early stage in the development and marketing of our bioscience technologies in highly competitive markets, and we anticipate that market acceptance of our novel technology may be a long term achievement. Even when our antimicrobial products have been approved by regulatory authorities and are available for commercial sale, there is often an extended period of time in which potential users formulate and test them before committing to significant purchases. Each formulation of our products requires regulatory approval for each respective jurisdiction in which it is sold, and in addition to competitive challenges, we believe that the investment necessary for us to research, test and obtain regulatory approvals for our antimicrobial products will continue to be significant. However, we believe we are in a position to accelerate additional regulatory approvals and negotiate distribution, development and marketing agreements for the inclusion of our SDC and related technology into multiple global products.

We are seeking marketing and development partners in markets that we believe have broad potential for our new, proprietary bioscience products based initially upon our patented silver ion antimicrobial technologies. We are developing technology-based bioscience products, including our SDC-based antimicrobials, which we believe have the potential to provide best in class, non-toxic solutions to numerous global health challenges and represent innovative advances in diverse markets. We believe that our technologies are positioned to contribute significantly to today’s global trend toward industrial and consumer use of “green” products, while providing competitive advantages in efficacy and safety.

We were incorporated in the state of California on August 24, 1992 under the name “Innovative Medical Services”. We changed our name to Pure Bioscience on October 6, 2003. Our principal executive offices are located at 1725 Gillespie Way, El Cajon, California, 92020. Our telephone number is (619) 596-8600. Our website is located at www.Purebio.com. The information found on, or accessible through, our website is not a part of this prospectus.

Unless otherwise mentioned or unless the context requires otherwise, all references in this prospectus to “we,” “us” and “our” refer to Pure Bioscience, a California corporation. We own the registered trademarks or trademark applications for PURE Bioscience®, Powered by SDC Ag⁺™, Staph Attack®, Staphacide®, Axenohl®, Axen®, Silvéron®, Kinderguard®, Cruise Control®, NutriPure™, Elderguard™, Critterguard™, Innovex®, RoachX®, AntX™, TrapX® and Medifier™, among others, and are in the process of registering certain other of our trademarks with the U.S. Patent and Trademark Office. We also register certain trademarks, tradenames and service marks in countries outside of the United States. All other trademarks, tradenames and service marks included or incorporated by reference into this prospectus, any applicable prospectus supplement or any related free writing prospectus, are the property of their respective owners.

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. Additional risks not presently known to us or that we currently believe are immaterial may also significantly impair our business operations.

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CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents incorporated by reference contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 (the “Securities Act”) and Section 21E of the Securities Exchange Act of 1934. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performances or achievements expressed or implied by the forward-looking statements. These forward-looking statements include, but are not limited to, those concerning the following:

- our expectations regarding our future operating results or financial performance;
- our intentions, expectations and beliefs regarding anticipated growth, market penetration and trends in our business;
- the timing and success of our regulatory submissions;
- our ability to commercialize and achieve market acceptance of new products that we may develop;
- our ability to successfully acquire and integrate other businesses into our operations;
- our ability to protect our intellectual property and operate our business without infringing upon the intellectual property rights of others; and
- our estimates regarding the sufficiency of our cash resources.

In some cases, you can identify forward-looking statements by terms such as “anticipates,” “believes,” “could,” “estimates,” “expects,” “intends,” “may,” “plans,” “potential,” “predicts,” “projects,” “should,” “will,” “would” as well as similar expressions. Forward-looking statements reflect our current views with respect to future events, are based on assumptions and are subject to risks, uncertainties and other important factors. Risk factors that could cause actual results to differ from those contained in the forward-looking statements include but are not limited to: our limited operating history; our history of losses; our future capital needs; the rapidly changing technologies and market demands; the failure of our products to achieve broad acceptance; our failure to successfully compete; our dependence on a single product; our failure to comply with government regulation; the loss of a key member of our management team; our failure to protect our intellectual property; our exposure to intellectual property and product liability claims; changes in government policies and other risks, uncertainties and other important factors that we discuss in greater detail under the heading “Risk Factors” contained in the applicable prospectus supplement and any related free writing prospectus, and in our most recent annual report on Form 10-K and in our most recent quarterly report on Form 10-Q, as well as any amendments thereto reflected in subsequent filings with the SEC. Given these risks, uncertainties and other important factors, you should not place undue reliance on these forward-looking statements. Also, these forward-looking statements represent our estimates and assumptions only as of the date such forward-looking statements are made. You should carefully read both this prospectus, the 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 Additional Information,” completely and with the understanding that our actual future results may be materially different from what we expect.

Except as required by law, we assume no obligation to update any forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in any forward-looking statements, even if new information becomes available in the future.

THE SECURITIES WE MAY OFFER

We may offer shares of our common stock and preferred stock, and/or various series of warrants to purchase any of such securities, either individually or in units, with a total value of up to \$15,000,000 from time to time under this prospectus at prices and on terms to be determined by market conditions at the time of any 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:

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- 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, exercise, exchange or sinking fund terms, if any;
- ranking;
- restrictive covenants, if any;
- voting or other rights, if any;
- conversion prices, if any; and
- important 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 ACCOMPANIED BY A PROSPECTUS SUPPLEMENT.

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

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

Common Stock. We may issue shares of our common stock from time to time. The holders of common stock are entitled to one vote for each share held of record on all matters submitted to a vote of shareholders and do not have cumulative voting rights. Subject to preferences that may be applicable to any outstanding shares of preferred stock, the holders of common stock are entitled to receive ratably only those 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.

Preferred Stock. We may issue shares of our preferred stock from time to time, in one or more series. Under our articles of incorporation, our board of directors has the authority, without further action by shareholders, to designate up to 5,000,000 shares of preferred stock in one or more series and to fix the rights, preferences, privileges, qualifications and restrictions granted to or imposed upon the preferred stock, including dividend rights, conversion rights, voting rights, rights and terms of redemption, liquidation preference and sinking fund terms, any or all of which may be greater than the rights of the common stock.

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If we sell any series of preferred stock under this prospectus, we will fix the designations, powers, preferences and rights of such series of preferred stock, as well as the qualifications, limitations or restrictions thereon, in the certificate of determination 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 determination that describes the terms of the series of preferred stock 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 determination that contains the terms of the applicable series of preferred stock.

Warrants. We may issue warrants for the purchase of common stock and/or preferred stock in one or more series. We may issue warrants independently or together with common stock and/or preferred stock, 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. 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, forms of the warrant agreements and forms of warrant certificates containing the terms of the warrants being offered.

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.

Units. We may issue, in one or more series, units consisting of common stock, preferred stock and/or warrants for the purchase of common stock and/or preferred stock 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 will evidence each series of units by unit certificates that we will issue. 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.

RATIO OF EARNINGS TO FIXED CHARGES

The following summary is qualified by the more detailed information appearing in the computation table found in Exhibit 12.1 to the registration statement of which this prospectus is part and the historical financial statements, including the notes to those financial statements, incorporated by reference in this prospectus.

For each of the years ended July 31, 2004 to 2008 and the six months ended January 31, 2009, our earnings were insufficient to cover fixed charges. Because of the deficiency, ratio information is not applicable. Accordingly, the following table sets forth the deficiency of earnings from continuing operations available to cover fixed charges for each of the periods presented. Amounts shown are in thousands.

Six Months Ended January 31,	2008	2007	Year Ended July 31,			2004
			2006	2005		

2009

Deficiency of earnings from continuing operations available to cover fixed charges	\$3,833	\$6,549	\$4,661	\$3,690	\$3,131	\$3,147
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For purposes of computing the deficiency of earnings from continuing operations available to cover fixed charges, fixed charges consist of (a) interest expensed and capitalized, (b) amortized premiums, discounts and capitalized expenses related to indebtedness and (c) an estimate of the interest within rental expense. Earnings consist of net losses from continuing operations before income taxes plus fixed charges.

For the periods indicated above, we had no outstanding shares of preferred stock with required dividend payments. Therefore, the ratios of earnings to combined fixed charges and preferred stock dividends are identical to the information presented above.

USE OF PROCEEDS

Except as described in any prospectus supplement or in any related free writing prospectus that we may authorize to be provided to you, we currently intend to use the net proceeds from the sale of the securities offered hereby for sales and marketing initiatives as well as for research and development and general corporate purposes. We may also use a portion of the net proceeds to acquire or invest in businesses, products and technologies that are complementary to our own. Pending these uses, we expect to invest the net proceeds in short-term, investment-grade securities.

DESCRIPTION OF CAPITAL STOCK

Our authorized capital stock consists of 50,000,000 shares of common stock, no par value, and 5,000,000 shares of preferred stock, no par value. As of April 10, 2009, there were:

- 30,809,325 shares of common stock outstanding; and
- no shares of preferred stock outstanding.

The following summary description of our capital stock is based on the provisions of our articles of incorporation and bylaws and the applicable provisions of the California Corporations Code. This information is qualified entirely by reference to the applicable provisions of our articles of incorporation, bylaws and the California Corporations Code. For information on how to obtain copies of our articles of incorporation and bylaws, 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 the shareholders. Our shareholders 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 only those 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 or other subscription or conversion rights. There are no redemption or sinking fund provisions applicable to our common stock.

PREFERRED STOCK

Pursuant to our articles of incorporation, our board of directors has the authority, without further action by the shareholders (unless such shareholder action is required by applicable law or NASDAQ rules), to designate and issue up to 5,000,000 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 and rights of the shares of each wholly unissued series, and any qualifications, limitations or restrictions thereon, 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.

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We will fix the designations, powers, preferences and rights of the preferred stock of each series, as well as the qualifications, limitations or restrictions thereon, in the certificate of determination 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 determination 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;
- the dividend rate, period and payment date and method of calculation for dividends;
- whether dividends will be cumulative or non-cumulative and, if cumulative, the date from which dividends will accumulate;
- 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, and, if applicable, the conversion price, or how it will be calculated, and the conversion period;
- voting rights, if any, of the preferred stock;
- preemptive 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 the issuance of any class or series of preferred stock ranking senior to or on a parity with the series of preferred stock as to dividend rights and rights if we liquidate, dissolve or wind up our affairs; and

- any other specific terms, preferences, rights or limitations of, or restrictions on, the preferred stock.

Our board of directors may authorize the issuance of preferred stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of our 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 our common stock.

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STOCK OPTIONS AND WARRANTS

As of April 10, 2009, there were 19,190,675 shares of common stock reserved for issuance under our equity compensation plans or upon exercise of outstanding warrants. Of this number, 6,069,664 shares were reserved for issuance upon exercise of outstanding options that were previously granted under our stock option plans, 12,533,858 shares were reserved for issuance upon exercise of options that may be granted in the future under our stock option plans, and 587,153 shares were reserved for issuance upon exercise of outstanding warrants.

ANTI-TAKEOVER EFFECTS OF PROVISIONS OF OUR ARTICLES OF INCORPORATION AND BYLAWS

Certain provisions of our articles of incorporation and bylaws may delay or frustrate the removal of incumbent directors and may prevent or delay a merger, tender offer or proxy contest involving us that is not approved by our Board of Directors, even if such events may be beneficial to the interests of shareholders. For example, our Board, without shareholder approval, has the authority and power to issue all authorized and unissued shares of common stock and preferred stock which have not otherwise been reserved for issuance on such terms as the Board determines. The Board could also issue 5,000,000 shares of preferred stock. The issuance of preferred stock may:

- delay, defer or prevent a change in control;
- discourage bids for the common stock at a premium over the market price of our common stock;
- adversely affect the voting and other rights of the holders of our common stock; and
- discourage acquisition proposals or tender offers for our shares and, as a consequence, inhibit fluctuations in the market price of our shares that could result from actual or rumored takeover attempts.

Special Meeting Requirements. Our bylaws provide that special meetings of shareholders may be called at the request of our board of directors or by one or more shareholders holding shares in the aggregate entitled to cast not less than five percent (5%) of the votes at that meeting.

Indemnification. Our articles of incorporation and our bylaws, as amended, provide that we will indemnify officers and directors against losses as they incur in investigations and legal proceedings resulting from their services to us, which may include service in connection with takeover defense measures.

These provisions may have the effect of deterring hostile takeovers or delaying changes in our control or management. These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and in the policies they implement, and to discourage certain types of transactions that may involve an actual or threatened change of our control. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and, as a consequence, they also may inhibit fluctuations in the market price of our shares that could result from actual or rumored takeover attempts. Such provisions may also have the effect of preventing changes in our management.

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Computershare Trust Company, N.A. Its address is 350 Indiana Street, Suite 800, Golden, Colorado 90401, and its telephone number is (303) 262-0600. 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.

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of common stock and/or preferred stock in one or more series. We may issue warrants independently or together with common stock and/or preferred stock, and the warrants may be attached to or separate from these securities. While the terms summarized below will apply generally to any warrants that we may offer, we will describe the particular terms of any series of warrants in more detail in the applicable prospectus supplement. The terms of any warrants offered under a prospectus supplement may differ from the terms described below.

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, 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 of the 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 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 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;
- 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 or special 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 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.

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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. 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.

DESCRIPTION OF UNITS

We may issue, in one more series, units consisting of common stock, preferred stock and/or warrants for the purchase of common stock and/or preferred stock in any combination. 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.

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 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 may offer under this prospectus, as well as any related free writing prospectuses and the complete unit agreement and

any supplemental agreements that contain the terms of the units.

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GENERAL

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,” and “Description of Warrants” will apply to each unit and to any common stock, preferred stock or warrant included in each unit, respectively.

ISSUANCE IN SERIES

We may issue units in such amounts and in such 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.

TITLE

We, and any unit agent 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” below.

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, depositary or warrant 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 depositary on behalf of other financial institutions that participate in the depositary'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. Securities issued in global form will be registered in the name of the depositary or its participants. Consequently, for securities issued in global form, we will recognize only the depositary as the holder of the securities, and we will make all payments on the securities to the depositary. The depositary 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 depositary 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 book-entry 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 depositary'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 holders, of the securities.

STREET NAME HOLDERS

We may terminate a global security or issue securities in non-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 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 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 and of any third parties 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 depositary participants or customers or by law, to pass it along to the indirect holders but does not do so. Whether and how the holders contact the indirect holders is up to the holders.

SPECIAL CONSIDERATIONS FOR INDIRECT HOLDERS

If you hold securities through a bank, broker or other financial institution, either in book-entry form 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 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 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 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 in global form only, 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

The rights of an indirect holder 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.

If securities are issued only in the form of a global security, 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 a 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 a 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 a global security, nor do we or any applicable trustee supervise the depositary in any way;

- the depository may, and we understand that DTC will, require that those who purchase and sell interests in a 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 depository's book-entry system, and through which an investor holds its interest in a 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, the 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 name, so that they will be direct holders. We have described the rights of holders and street name investors above.

Unless we provide otherwise in the applicable prospectus supplement, the global security will terminate when the following special situations occur:

- if the depository notifies us that it is unwilling, unable or no longer qualified to continue as depository for that global security and we do not appoint another institution to act as depository 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 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 applicable prospectus supplement. When a global security terminates, the depository, and not we or any applicable trustee, is responsible for deciding the names of the institutions that will be the initial direct holders.

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 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.

A prospectus supplement or supplements will describe the terms of the offering of the securities, including:

- the name or names of the 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 will be 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, other than securities covered by any over-allotment option. Any public offering price and any discounts or concessions allowed or reallocated or paid to dealers may change from time to time. We may 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, 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 may 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 over-allotment, stabilizing transactions, short-covering transactions and penalty bids in accordance with Regulation M under the Exchange Act. Over-allotment 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 price. Syndicate-covering or other short-covering transactions

involve purchases of the securities, either through exercise of the over-allotment option or 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 that are qualified market makers on the NASDAQ Capital Market may engage in passive market making transactions in the common stock on the NASDAQ Capital Market in accordance with Regulation M under the Exchange Act, during the business day prior to the pricing of the offering, before the commencement of offers or sales of the common stock. 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.

LEGAL MATTERS

The validity of the securities being offered by this prospectus will be passed upon by Morrison & Foerster LLP, San Diego, California.

EXPERTS

Mayer Hoffman McCann P.C., independent registered public accounting firm, has audited our financial statements included in our Annual Report on Form 10-K for the year ended July 31, 2008, and the effectiveness of our internal control over financial reporting as of July 31, 2008, as set forth in their reports, which are incorporated by reference in this prospectus and elsewhere in the registration statement. Our financial statements are incorporated by reference in reliance on Mayer Hoffman McCann P.C.'s reports, given on their authority as experts in accounting and auditing.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We file annual, quarterly and special reports, proxy statements and other information with the SEC. You may read and copy any document we file at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information about the operation of 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 Pure Bioscience. The SEC's Internet site can be found at www.sec.gov.

The SEC allows us to incorporate by reference the information we file with it, which means that we can disclose important information to you by referring you to another document that we have filed separately with the SEC. You should read the information incorporated by reference because it is an important part of this prospectus. We incorporate by reference the following information or documents that we have filed with the SEC (Commission File No. 001-14468):

- our annual report on Form 10-K for the fiscal year ended July 31, 2008, filed with the SEC on October 14, 2008;
- our current report on Form 8-K, filed with the SEC on November 26, 2008;
- the information specifically incorporated by reference into our annual report on Form 10-K for the fiscal year ended July 31, 2008 from our definitive proxy statement on

Schedule 14A, filed with the SEC on November 26, 2008;

- our quarterly report on Form 10-Q for the quarter ended October 31, 2008, filed with the SEC on December 10, 2008;
- our current report on Form 8-K, filed with the SEC on February 10, 2009;
- our current report on Form 8-K, filed with the SEC on February 20, 2009;
- our current report on Form 8-K, filed with the SEC on March 9, 2009;

- our quarterly report on Form 10-Q for the quarter ended January 31, 2009, filed with the SEC on March 12, 2009; and
- the description of our common stock and our preferred stock contained in our Registration Statement on Form 8-A filed on March 31, 2008, including any amendment or report filed for the purpose of updating such description.

Any information in any of the foregoing documents will automatically be deemed to be modified or superseded to the extent that information in this prospectus or in a later filed document that is incorporated or deemed to be incorporated herein by reference modifies or replaces such information.

We also incorporate by reference any future filings (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) made with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, until we file a post-effective amendment that indicates the termination of the offering of the securities made by this prospectus. Information in such future filings updates and supplements the information provided in this prospectus. Any statements in any such future filings will automatically be deemed to modify and supersede any information in any document we previously filed with the SEC that is incorporated or deemed to be incorporated herein by reference to the extent that statements in the later filed document modify or replace such earlier 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: Pure Bioscience, Attention: Investor Relations, 1725 Gillespie Way, El Cajon, California, 92020, telephone (619) 596-8600.

\$2,575,000 in Shares of Common Stock

PROSPECTUS SUPPLEMENT

December 15, 2011

