



• VERMILLION •
INCORPORATED

2010 Annual Report
&
2011 Proxy Statement

Dear Shareholders,

2010 was a tremendous year of progress for Vermillion. Successfully launching OVA1® in the US with our distribution partner, Quest Diagnostics, while simultaneously rebuilding the Company after emerging from Chapter 11 bankruptcy protection were significant accomplishments. With the basic groundwork in place, we expect in 2011 to begin morphing into a more diversified provider of high-valued diagnostic tests that satisfy unmet clinical needs.

2010 – ESTABLISHING THE BUILDING BLOCKS

On September 11, 2009, OVA1 became the first and only FDA-cleared test for the pre-operative assessment of ovarian tumors. This set the wheels in motion for us to employ a strategy designed to restructure and revitalize the Company. Below are some of the key milestones:

- Successfully completed a \$43 million private placement that helped us fully pay off our creditors and emerge out of bankruptcy in January. Not only did this remove a huge overhang, but it provided the resources with which we could rebuild the business, a task I believe we handled in a judicious manner as evidenced by our year-end cash balance of approximately \$23 million. This was more impressive when factoring in the significant legal, regulatory and accounting costs incurred in 2010.
- Expanded the Company's infrastructure and initiated numerous marketing efforts to prepare for the commercialization of OVA1. We started the year with three employees and ended with twenty-six, including several key management hires including Sandra Gardiner as our CFO, Ashish Kohli as our VP of Corporate Strategy and Jeffrey Salzman as our Corporate Director of Reimbursement.
- Updated our financial filings to become compliant with the SEC and were relisted on the NASDAQ Global Market in July. This was important in order to obtain enhanced market maker support, more efficient access to investment capital, improved liquidity and greater visibility for the Company within the investment community.
- Amended our Strategic Alliance Agreement with Quest Diagnostics, which resulted in a more favorable revenue split for Vermillion. Payment now consists of a \$50 fixed upfront payment per test performed and a 33% royalty based on Quest Diagnostics' gross profit. In addition to better economics, the amended agreement provides greater visibility and improved cash flows since the payments are received on a monthly basis as opposed to quarterly under the previous agreement.
- Putting these pieces in place allowed us to secure payor coverage and in the end, enjoy a successful initial launch of OVA1, which began in March to coincide with the annual meeting of the Society of Gynecologic Oncologists (SGO). Simultaneously in March, we were able to establish a favorable coverage decision from Medicare, who began to cover the test at \$516.25, which is approximately 80% of the \$650 list price. Through the course of the year, we were able to add more than ten independent Blue Cross Blue Shield plans as well as several regional plans. Collectively, we ended the year with 65-70 million lives under coverage.

This initial payor uptake, combined with the market development and sales efforts by our partner Quest Diagnostics, translated nicely into an initial uptake of OVA1 as we finished 2010 with 6,155 tests being performed. Given our short time in the market, we are pleased to see a steady improvement in adoption. The large installed physician client base of Quest Diagnostics, along with our collective sales & marketing initiatives should help significantly increase test volume in 2011 over 2010. We believe the long-term market opportunity of over one million tests per year remains very compelling and are driving hard to tap into this as quickly as possible.

2011 – CAPTURING THE OPPORTUNITY

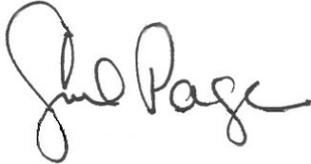
Building on our many successes of 2010, we look to continue growing OVA1 sales while advancing our pipeline in our mission to become a diversified provider of high-value diagnostic tests that help physicians diagnose, treat and improve outcomes for patients.

We started the year by completing a four million share follow-on offering that netted approximately \$20 million. With a strengthened balance sheet, Vermillion now has the ability to aggressively invest in attractive growth opportunities such as the following:

- OVA1 remains the key near-term growth driver, and our primary efforts are directed at accelerating market adoption in the United States. We will do this through our well-trained sales infrastructure and our marketing programs such as the KOL initiative, the CME program, and expanding our physician and public awareness campaigns. Key drivers of market adoption will be the acceptance of the OVA1 clinical trial manuscript by a peer-reviewed journal and expanded payor coverage. To that end, we are currently working on a post-market surveillance study on OVA1 as well as a patient registry study. In addition, the financing allows us to expand our salesforce, which we will do in a strategic manner based on sales ramp, geography, and payor coverage.
- For marketing in 2011, we will attend more than 25 regional and national events in the US during the first half of the year. Advertising and promotions will expand into a broader range of clinician journals and highlight the sensitivity of OVA1 and various technical articles highlighting OVA1 and how it may “improve the predictability of cancer in women with ovarian masses” (ACOG Practice Bulletin #477, March 2011).
- Launching OVA1 internationally in a select group of countries is a key objective for 2011. Our initial strategy includes working with Quest in India, Mexico, and the United Kingdom. Furthermore, we are evaluating territories in Europe, Asia, and South America with other potential business partners. In early April, we announced plans to begin selling OVA1 in India, which represents a large market opportunity with more than 350 million women. Having a strong cash position allows us to spend on the appropriate marketing and clinical studies that may be necessary to secure regulatory approval and reimbursement, precursors to long-term success in these countries.
- Accelerating our R&D pipeline is another area of potential spending as we look to advance our next generation ovarian assay and more near-term, our PAD diagnostic program. We believe that VASCLIR™ is a compelling market opportunity, given that it is a highly prevalent but underdiagnosed condition that primarily impacts smokers and diabetics over the age of 50 and elderly over the age of 70, which in aggregate represents a substantial population. We have contracted with the Colorado Prevention Center to conduct an intended use study which should provide us with a finalized marker algorithm. We anticipate top-line data to be available in Q3. Based on these results, we will discuss with the FDA an appropriate regulatory strategy.
- Lastly, we will look more aggressively at external avenues to help broaden our growth opportunities, whether they be through in-licensing, small acquisitions or distribution agreements. This should allow us to leverage our unique business model of being a software-centric diagnostic company with R&D collaborations with important academic institutions and an established distribution partner in Quest Diagnostics. The financial strength provided by the follow-on offering positions us to take advantage of potential opportunities as they arise.

As we think about the future, Vermillion will focus on building and implementing those programs that enhance shareholder value. The OVA1 domestic launch is progressing well and should accelerate as our marketing and reimbursement initiatives drive increased awareness of the test. While there will be challenges ahead, I am confident in our ability to meet and, more importantly, overcome them in a timely manner to achieve our goal of being a leading provider of high-value molecular diagnostic products. On behalf of the Board of Directors and management, I would like to express our appreciation to all of our shareholders, employees, collaborators and partners for their continued support and commitment as we build our business. I look forward to updating you on our continuing progress.

Sincerely,

A handwritten signature in black ink, appearing to read "Gail Page". The signature is fluid and cursive, with the first name "Gail" written in a larger, more prominent script than the last name "Page".

Gail S. Page
Chair of the Board of Directors and Chief Executive Officer

VERMILLION, INC.

**NOTICE OF ANNUAL MEETING OF STOCKHOLDERS
TO BE HELD ON MONDAY, JUNE 6, 2011**

Dear Stockholder:

NOTICE IS HEREBY GIVEN that the 2011 Annual Meeting of the Stockholders of Vermillion, Inc., a Delaware corporation ("Vermillion" or "the Company"), will be held on Monday, June 6, 2011 at 8:00 a.m. (Central Daylight Savings Time), at the Hampton Inn, 2013 FM 620 South, Lakeway, Texas 78734 for the following purposes:

1. To elect James S. Burns, Peter S. Roddy and Carl Severinghaus as Class II directors, each to serve for a three-year term and until their successors are duly elected and qualified (Proposal 1);
2. To hold an advisory vote on the compensation of our Named Executive Officers, as presented by this Proxy Statement (Proposal 2);
3. To hold an advisory vote on the frequency of future advisory votes on executive compensation (Proposal 3);
4. To ratify the selection of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the year ending December 31, 2011 (Proposal 4); and
5. To transact such other business as properly may be brought before the Annual Meeting or any adjournment thereof.

The foregoing items of business are more fully described in the proxy statement accompanying this Notice.

The Board of Directors has fixed the close of business on April 25, 2011 as the record date for determining the stockholders entitled to receive notice of, and to vote at, the Annual Meeting or any adjournment thereof. A complete list of such stockholders will be available for examination by any stockholder for any purpose germane to the Annual Meeting during ordinary business hours at our executive offices at 12117 Bee Caves Road, Building Two, Suite 100, Austin, Texas 78738 for a period of 10 days before the Annual Meeting.

All stockholders are cordially invited to attend the Annual Meeting in person. To ensure your representation at the Annual Meeting, you are urged to sign and date the attached proxy card and return it in the enclosed pre-addressed postage-paid envelope. Any stockholder attending the Annual Meeting may vote in person even if that stockholder has returned a proxy.

Important Notice Regarding the Availability of Proxy Materials for the Stockholder Meeting to be held on June 6, 2011

The proxy statement and our annual report on Form 10-K for the year ended December 31, 2010 are available at <http://www.vermillion.com>.

By Order of the Board of Directors



Gail S. Page
Chief Executive Officer

Austin, Texas
April 28, 2011

YOUR VOTE IS IMPORTANT. IN ORDER TO ENSURE YOUR REPRESENTATION AT THE ANNUAL MEETING, YOU ARE URGED TO SIGN AND DATE THE ATTACHED PROXY CARD AND RETURN IT IN THE ENCLOSED PRE-ADDRESSED POSTAGE-PAID ENVELOPE AS SOON AS POSSIBLE.

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VERMILLION, INC.
12117 Bee Caves Road, Building Two, Suite 100
Austin, Texas 78738

PROXY STATEMENT

Annual Meeting of Stockholders to be Held on June 6, 2011

INFORMATION ABOUT THE ANNUAL MEETING AND VOTING

General

The enclosed proxy is solicited on behalf of the Board of Directors (the "Board") of Vermillion, Inc., a Delaware corporation ("the Company," "we," "us" or "our"), for use at our 2011 Annual Meeting of Stockholders (the "Annual Meeting") to be held on June 6, 2011 at 8:00 a.m. (Central Daylight Savings Time). The Annual Meeting will be held at the Hampton Inn, 2013 FM 620 South, Lakeway, Texas 78734. The Notice of our 2011 Annual Meeting, this proxy statement, the accompanying proxy card and our Annual Report on Form 10-K for the year ended December 31, 2010 will first be mailed to stockholders on or about May 10, 2011, and are also available online at <http://www.vermillion.com>. Our principal executive offices are located at 12117 Bee Caves Road, Building Two, Suite 100, Austin, Texas 78738 and the telephone number is (512) 519-0400.

Record Date; Outstanding Shares

The voting securities entitled to vote at the Annual Meeting consist of only shares of common stock. Only stockholders of record at the close of business on April 25, 2011 (the "Record Date") are entitled to notice of and to vote at the Annual Meeting. At the close of business on the Record Date, there were 14,708,594 shares of our common stock, par value \$0.001 per share, issued and outstanding and entitled to vote.

Revocability of Proxies

Any proxy given pursuant to this solicitation may be revoked by the person giving it at any time before its use by delivering to us at our principal executive offices (12117 Bee Caves Road Building Two, Suite 100, Austin, Texas 78738, Attention: Investor Relations) either a written notice of revocation or a duly executed proxy card bearing a later date, or attending the meeting and voting in person. Attendance at the meeting will not, by itself, revoke a proxy. For shares held in street name by beneficial owners, they may change their votes by submitting new voting instructions to their brokers, banks, or other nominees or, if they have obtained legal proxies from their brokers, banks, or other nominees giving them the right to vote their shares at the Annual Meeting, by attending the Annual Meeting and voting in person.

Solicitation of Proxies

This solicitation of proxies is made by us and all related costs will be borne by us. In addition, we may reimburse brokerage firms and other persons representing beneficial owners of shares for their expenses in forwarding solicitation material to such beneficial owners. Proxies may also be solicited by certain of our directors, officers and regular employees, without additional compensation, personally or by telephone or facsimile.

Quorum; Abstentions; Broker Non-Votes

Holders of a majority of the outstanding shares entitled to vote must be present, in person or by proxy, at the Annual Meeting in order to have the required quorum for the transaction of business. If the shares present, in person and by proxy, at the meeting do not constitute the required quorum, the meeting may be adjourned to a

subsequent date for the purpose of obtaining a quorum. When a proxy card is properly dated, executed and returned, the shares represented by such proxy card are counted in determining whether a quorum exists, even if the shares are voted “ABSTAIN” or “WITHHELD.”

The proposal to elect the nominees for director set forth herein requires, with respect to the election of each nominee, the affirmative vote of a plurality of the shares present at the meeting in person or by proxy and entitled to vote. Shares voted “ABSTAIN” or “WITHHELD” are not counted as votes cast and, thus, will have no effect on the vote to elect the nominees for director. The proposals to approve compensation of our Named Executive Officers and to ratify the selection of PricewaterhouseCoopers LLP as our independent registered public accounting firm both require the affirmative vote of a majority of the shares present at the meeting in person or by proxy and entitled to vote. Thus, shares voted “ABSTAIN” or “WITHHELD” will have the same effect as votes AGAINST the approval of the two proposals. On the proposal regarding the frequency of future advisory votes on the compensation of our Named Executive Officers, for the three choices of once every year, every two years or every three years, the choice receiving the most votes at the Annual Meeting will be the choice recommended by the stockholders.

If a stockholder holds shares through a broker, bank or nominee, the SEC has approved a rule that changes the manner in which the stockholder’s vote in certain matters will be handled. The effect of these changes is that the broker, bank or nominee will no longer be permitted to vote on the stockholder’s behalf on the election of directors or on the proposals regarding executive compensation or the frequency of future advisory votes on the compensation of our Named Executive Officers unless the stockholder provides specific instructions by completing and returning the voting instruction card (these uninstructed votes are termed “broker non-votes”). Broker non-votes are counted for purposes of determining whether a quorum exists for the transaction of business, but are not treated as entitled to vote on these proposals and, therefore, are not counted for purposes of determining the number of votes cast with respect to these particular proposals. Accordingly, broker non-votes will make a quorum more readily obtainable, but do not affect the outcome of the vote on these proposals.

If shares are held in street names by beneficial owners, their brokers, banks, or nominees will include a voting instruction card with this proxy statement. In the past, if they did not transmit these voting instructions within a specified period of time before the meeting, their brokers, banks or nominees were allowed to vote on their behalf on the election of directors and other matters considered to be routine. Now, for their vote to be counted, they will need to communicate their voting instructions to their brokers, banks or nominees before the date of the shareholder meeting.

Voting

Each share of common stock outstanding on the Record Date is entitled to one vote on all matters. Stockholders do not have cumulative voting rights.

When a proxy card is properly dated, executed and returned, the shares represented by such proxy card will be voted at the Annual Meeting in accordance with the instructions of the stockholder as set forth on the proxy card. If no specific instructions are given, the shares will be voted (1) FOR the election of the nominees for director set forth herein; (2) FOR the approval of the compensation of our Named Executive Officers as described under “Compensation Discussion and Analysis” below; (3) FOR a frequency of EVERY THREE YEARS for future advisory votes on the compensation of our Named Executive Officers; (4) FOR the ratification of the selection of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2011; and (5) at the discretion of the individuals designated as proxies on the proxy card on such other business as may properly come before the Annual Meeting or any adjournment thereof.

Attendance at the Annual Meeting

Attendance at the Annual Meeting will be limited to stockholders as of the Record Date. Each stockholder may be asked to present valid picture identification, such as a driver's license or passport. Stockholders holding stock in brokerage accounts or by a bank or other nominee may be required to show a brokerage statement or account statement reflecting stock ownership as of the Record Date.

Householding of Proxy Materials

Some banks, brokers and other nominee record holders may be "householding" our proxy statements and annual reports. This means that only one copy of our proxy statement and annual report to stockholders may have been sent to multiple stockholders in your household. We will promptly deliver a separate copy of either document to you if you call or write to us at our principal executive offices, 12117 Bee Caves Road, Building Two, Suite 100, Austin, Texas 78738, Attn: Investor Relations, telephone: (512) 519-0400. If you want to receive separate copies of the proxy statement or annual report to stockholders in the future, or if you are receiving multiple copies and would like to receive only one copy per household, you should contact your bank, broker, or other nominee record holder, or you may contact us at the above address and telephone number.

Submission of Stockholder Proposals for the 2012 Annual Meeting

Stockholder proposals intended for inclusion in the proxy statement to be furnished to all stockholders entitled to vote at our 2012 Annual Meeting, pursuant to Rule 14a-8 promulgated under the Securities Exchange Act of 1934, as amended (the "Exchange Act") by the SEC, must be received at our principal executive offices no later than January 10, 2012. Such proposals must also satisfy the procedures set forth in Rule 14a-8 under the Exchange Act.

Stockholder proposals and director nominations not included in our proxy statement for the 2012 Annual Meeting will not be eligible for presentation at the meeting unless the stockholder gives timely notice of the proposal in writing to our principal executive offices. To be timely, stockholder proposals and director nominations must be received by us 90 days prior to the one-year anniversary of the preceding year's annual meeting. Proposals and nominations that are not received in a timely manner will not be voted on at the 2012 Annual Meeting.

YOUR VOTE IS EXTREMELY IMPORTANT, NO MATTER HOW MANY OR HOW FEW SHARES YOU OWN. PLEASE SIGN AND DATE THE ENCLOSED PROXY CARD AND RETURN IT TODAY IN THE ENCLOSED PRE-ADDRESSED POSTAGE-PAID ENVELOPE.

IMPORTANT: If your shares are held in the name of a brokerage firm, bank, nominee or other institution, only it can sign a proxy card with respect to your shares and only upon specific instructions from you. Please return the enclosed proxy card to your broker or bank and contact the person responsible for your account to ensure that a proxy card is voted on your behalf.

PROPOSAL ONE: ELECTION OF DIRECTORS

Our Board of Directors currently consists of six directors. The directors are divided into three classes having staggered three-year terms, so that the term of one class expires at each annual meeting of stockholders. The term of the Class II director will expire at this Annual Meeting, and therefore three nominees are proposed for election as Class II director at this Annual Meeting, to hold office until the annual meeting in 2014 and until their successors are duly elected and qualified. If any of the Board's nominees are unable or decline to serve as director, the proxies will be voted for any substitute nominee who shall be designated by the Board. It is not expected that any of the Board's nominees will be unable to or will decline to serve as director.

Nominees for Director

Class II Director Nominees to the Board:

<u>Name</u>	<u>Age</u>	<u>Position with Vermillion</u>
James S. Burns	64	Director
Peter S. Roddy	51	Director
Carl Severinghaus	58	Director

Required Vote; Recommendation

The three nominees receiving the highest number of affirmative votes of the outstanding shares of common stock, present or by proxy, will be elected as directors so long as a quorum is present. Votes withheld from a particular nominee and broker non-votes will be counted for purposes of determining whether a quorum exists but, because directors are elected by a plurality vote, will have no impact on the vote with respect to that nominee.

THE BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT YOU VOTE "FOR" THE ELECTION OF ALL NOMINEES NAMED ABOVE. IF YOU SIGN AND RETURN THE ENCLOSED PROXY CARD, UNLESS YOU DIRECT TO THE CONTRARY ON THAT CARD, THE SHARES REPRESENTED BY THAT PROXY CARD WILL BE VOTED "FOR" THE ELECTION OF ALL NOMINEES LISTED ABOVE.

INFORMATION REGARDING THE BOARD OF DIRECTORS, COMMITTEES, AND CORPORATE GOVERNANCE

Biographical Information of Our Directors

Our Board of Directors currently consists of six directors. The directors are divided into three classes having staggered three-year terms, so that the term of one class expires at each annual meeting of stockholders. Any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of an equal number of directors. The classes are currently comprised as follows:

- *Class I directors.* William C. Wallen, Ph.D. is a Class I director, whose term will expire in 2013;
- *Class II directors.* James S. Burns, Peter S. Roddy and Carl Severinghaus are Class II directors, whose terms will expire at the Annual Meeting held in 2011; and
- *Class III directors.* John F. Hamilton and Gail S. Page are Class III directors, whose terms will expire in 2012.

Class II Directors Nominated for Election to a Three-Year Term Expiring at the 2014 Annual Meeting

James S. Burns, age 64, has been our director since June 2005. Mr. Burns is currently President, Chief Executive Officer and director of AssureRx, Health, Inc., a personalized medicine company which specializes in pharmacogenetics for neuropsychiatric disorders. Prior to joining AssureRx, Health, Inc., Mr. Burns was the President and Chief Executive Officer of EntreMed, Inc. from June 2004 to December 2008, and a director from September 2004 to December 2008. Mr. Burns was a co-founder and, from 2001 to 2003, served as President and as Executive Vice President of MedPointe, Inc., a specialty pharmaceutical company that develops, markets and sells branded prescription pharmaceuticals. From 2000 to 2001, Mr. Burns served as a founder and Managing Director of MedPointe Capital Partners, a private equity firm that led a leveraged buyout to form MedPointe Pharmaceuticals. Previously, Mr. Burns was a founder, Chairman, President and Chief Executive Officer of Osiris Therapeutics, Inc., a biotech company developing therapeutic stem cell products for the regeneration of damaged or diseased tissue. Mr. Burns has also been Vice Chairman of HealthCare Investment Corporation and a founding General Partner of Healthcare Ventures L.P., a venture capital partnership specializing in forming companies building around new pharmaceutical and biotechnology products; Group President at Becton Dickinson and Company, a multidivisional biomedical products company; and Vice President and Partner at Booz & Company, Inc., a multinational consulting firm. Mr. Burns is a director of Symmetry Medical Inc. (NYSE: SMA), a supplier of products and services to orthopedic and other medical device companies, and a director of the International BioResources Group and the American Type Culture Collection (ATCC). Mr. Burns received his B.S. and M.S. in Biological Sciences from the University of Illinois, and M.B.A. from DePaul University. Our Board of Directors has determined that based upon Mr. Burns' extensive experience in the diagnostics industry, and current and prior directing and management experience, he has the qualifications and skills to serve as a member of our Board of Directors.

Peter S. Roddy, age 51, was appointed to our Board of Directors and Audit Committee on February 18, 2010. Mr. Roddy has served as Vice President and Chief Financial Officer of Pain Therapeutics, Inc. since July 2004, and as its Chief Financial Officer since November 2002. From 1990 to 2002, Mr. Roddy held a variety of senior management positions at COR Therapeutics, Inc. (now part of Takeda Pharmaceutical Company Limited), a biopharmaceutical company, including Senior Vice President, Finance and Chief Financial Officer between 2000 and 2002. Prior to 1990, Mr. Roddy held a variety of positions at Price Waterhouse & Company, Hewlett Packard Company and MCM Laboratories, Inc. Mr. Roddy received his B.S. in Business Administration from the University of California, Berkeley. Our Board of Directors has determined that based upon Mr. Roddy's extensive experience in the life science industry, including relevant experience as an executive officer and chief financial officer, as well as experience at a major accounting firm, he has the qualifications and skills to serve as a member of our Board of Directors and Chairman of the Audit Committee.

Carl Severinghaus, age 58, was appointed to our Board of Directors on March 3, 2010 and serves as our Compensation Committee Chairman. In addition, he is a member of our Audit Committee and Nominating and Governance Committee. Mr. Severinghaus currently holds the position of Vice President, Head of Global Sales OEM Components of Tecan Group since January 1, 2011. Prior to that, he was President of Tecan Americas from 2009 to 2010, responsible for the sales and operations for the Americas Sales Regions, including U.S., Canada, and South America. From 2007 to 2008, he was Senior Vice President of International Sales, responsible for the worldwide sales and operations of the direct and OEM sales channels. From 2007 to 2011, he served as a member of the Executive Committee of Tecan, an internal Board responsible for implementing the Board of Directors' worldwide strategies and goals. He was President and General Manager of Tecan from 1999 to 2006, and Vice President of Sales and National Sales Manager from 1991 to 1998. Prior to joining Tecan, he held National Sales Manager position at American Monitor Corporation from 1980 to 1991. Mr. Severinghaus received his Bachelor of Fine Arts degree in Communications and Public Speaking from Drake University in 1974. He is a member of the Analytical & Life Science Systems Association, the Association for Laboratory Science, and the American Association for Clinical Chemistry. The Board of Directors has determined that based upon Mr. Severinghaus' demonstrated executive level management and commercial operations skills, both domestically and internationally, he has the qualifications and skills to serve as a member of our Board of Directors and a key member of the Board's Audit, Compensation, and Nominating and Governance Committees.

Class III Directors Continuing in Office until the 2012 Annual Meeting

Gail S. Page, age 55, has been our director since December 2005. Ms. Page joined us in January 2004 as President of our Diagnostics Division and an Executive Vice President, and was promoted to President and Chief Operating Officer of Vermillion in August 2005. Subsequently, Ms. Page became our President and Chief Executive Officer in December 2005 and served in this capacity until her resignation on March 27, 2009 due to our bankruptcy proceeding. In connection with our emergence from bankruptcy, Ms. Page was reappointed as our Chief Executive Officer on February 1, 2010. From October 2000 to January 2003, Ms. Page was Executive Vice President and Chief Operating Officer of Luminex Corporation. From 1988 to 2000, Ms. Page held various senior level management positions with Laboratory Corporation of America ("LabCorp"). In 1993, Ms. Page was named Senior Vice President, Office of Science and Technology at LabCorp, responsible for the management of scientific affairs in addition to the diagnostics business segment. Additionally, from 1995 to 1997, Ms. Page headed the Cytology and Pathology Services business unit for LabCorp. From 1988 to 2000, Ms. Page was a member of the Scientific Advisory Board at LabCorp and chaired the committee from 1993 to 1997. Prior to her years at LabCorp and its predecessor, Roche Biomedical, Ms. Page worked in various functions in the academic field and the diagnostics industry. Ms. Page received her A.S. in Medical Technology in combination with a Cardiopulmonary Technology Diploma from the University of Florida. Ms. Page also completed an executive management course at the Kellogg School of Management at Northwestern University. The Board of Directors has determined that based upon Ms. Page's intimate knowledge of our business and extensive experience in the management and development of biotechnology companies, she has the qualifications and skills to serve as a member of our Board of Directors. She also brings significant experience in the sales, marketing and commercialization of diagnostic products.

John F. Hamilton, age 66, has been our director since April 2008. From 1997 until his retirement in 2007, Mr. Hamilton served as Vice President and Chief Financial Officer of Depomed, Inc. Mr. Hamilton began his career in international banking with The Philadelphia National Bank and Crocker National Bank, and went on to hold senior financial positions at several bio-pharmaceutical companies including Glyko, Inc., which is now BioMarin Pharmaceuticals, and Chiron Corporation. Mr. Hamilton sits on the regional Board of Directors of the Association of Bioscience Financial Officers, and is past-president of the Treasurers Club of San Francisco. Mr. Hamilton received his M.B.A. from the University of Chicago and B.A. in International Relations from the University of Pennsylvania. Our Board of Directors has determined that based upon Mr. Hamilton's extensive experience in finance and capital markets gained through his education and his senior financial positions at various biopharmaceutical companies, he has the qualifications and skills to serve as a member of our Board of Directors. Mr. Hamilton also brings to the Board significant strategic and financial expertise and leadership experience.

Class I Director Continuing Office until the 2013 Annual Meeting

William C. Wallen, Ph.D., age 67, has been our director since February 2010 and serves as Chairman of our Nominating and Governance Committee. Additionally, he is a member of our Audit Committee and Compensation Committee, and served on our Scientific Advisory Board from April 2006 until February 2010 when he joined the Board of Directors. Dr. Wallen served as the Senior Vice President and Chief Scientific Officer of IDEXX Laboratories, Inc. (“IDEXX”) beginning September 2003, and retired from IDEXX on March 3, 2010. Commencing in December 2008, Dr. Wallen took on the position of leading its infectious disease product manufacturing operations. Dr. Wallen led IDEXX’s pharmaceutical products business from September 2003 until IDEXX sold certain product lines and restructured that business in 2008. Prior to joining IDEXX, Dr. Wallen held various positions with Bayer Corporation, most recently as Senior Vice President, Research and Development, and Head, Office of Technology for the Diagnostics Division of Bayer Healthcare. From 2001 to 2003, Dr. Wallen served as Senior Vice President and Head of Research, Nucleic Acid Diagnostics Segment; from 1999 to 2001, as Senior Vice President of Research and Development Laboratory Testing Segment; and from 1993 to 1999, as Vice President of Research and Development, Immunodiagnostic and Clinical Chemistry Business Units. Before joining Bayer Corporation, from 1990 to 1993, Dr. Wallen was Vice President, Research and Development at Becton Dickinson Advanced Diagnostics. Dr. Wallen is a member of the American Association of Clinical Chemistry, the American Society for Microbiology, American Association for Cancer Research, The Leukemia society of America, and the New York Academy of Science. Dr. Wallen has authored or co-authored 55 scientific papers and articles covering topics in immunology, virology, oncology and detection methodologies. Dr. Wallen received his B.S. in Zoology and M.S. in Microbiology from Michigan State University, and Ph.D. in Molecular Biology from University of Arizona College of Medicine. The Board of Directors has determined that based upon Dr. Wallen’s extensive experience in research and development and corporate governance matters in the diagnostics industry, he has the qualifications and skills to serve as a member of our Board of Directors. Dr. Wallen also brings to the Board a background in managing public companies, which gives him the qualification and skills to serve as a key member of the Board’s Audit, Compensation, and Nominating and Governance Committees.

Independence of the Board of Directors

We have identified the following directors as independent directors.

<u>Name</u>	<u>Board</u>	<u>Audit Committee</u>	<u>Compensation Committee</u>	<u>Nominating and Governance Committee</u>
James S. Burns ⁽¹⁾	●			
John F. Hamilton ⁽¹⁾	●			
Peter S. Roddy ⁽²⁾	●	● (Chair)		
Carl Severinghaus ⁽²⁾	●	●	● (Chair)	●
William C. Wallen, Ph.D. ⁽²⁾	●	●	●	● (Chair)

(1) In connection with the Debtor’s Incentive Plan as described under “Executive Compensation—Compensation Discussion and Analysis” below, there is uncertainty as to whether Mr. Hamilton and Mr. Burns were independent directors in fiscal year 2010, as defined by NASDAQ Listing Rule 5605(a)(2).

(2) The Board has determined that Mr. Roddy, Mr. Severinghaus and Dr. Wallen are independent directors as defined by NASDAQ Listing Rule 5605(a)(2).

Board Leadership Structure

The Board does not have a policy regarding the separation of the roles of Chief Executive Officer and Chairman of the Board as the Board believes it is in the best interest of the Company to make that determination based on the position and direction of the Company and the membership of the Board. The Board has determined that having our Chief Executive Officer serve as Chairman is in the best interest of our stockholders. This structure makes the best use of the Chief Executive Officer’s extensive knowledge of us and our industry, as well as fostering greater communication between our management and the Board.

Role in the Board in Risk Oversight

The Board is involved in oversight of risks that could affect us. This oversight is conducted primarily through committees of the Board, and particularly the Audit Committee and Nominating and Governance Committee, but the full Board has retained responsibility for general oversight of risks. The Board satisfies this responsibility through full reports by each committee chair regarding the committee's considerations and actions, as well as through regular reports directly from officers responsible for oversight of particular risks within the Company.

Meetings of the Board of Directors

Our Board establishes overall policies and standards and reviews the performance of management. During the fiscal year ended December 31, 2010, the Board held twelve meetings and took action by unanimous written consent on four occasions. Each Board member attended 75% or more of the aggregate meetings of the Board, on which he or she served, held during the period for which he or she was a director. Applicable NASDAQ listing standards require that the independent directors meet from time to time in executive session. In fiscal 2010, our independent directors met in regularly scheduled executive sessions at which only independent directors were present. It is our policy to request that all Board members attend the annual meeting of stockholders. We held an annual meeting of stockholders on December 3, 2010.

Audit Committee

The Audit Committee of the Board was established by the Board to oversee our corporate accounting and financial reporting processes, systems of internal control over financial reporting and the quality and integrity of our financial statements and reports. In addition, the Audit Committee oversees the qualification, independence and performance of our independent registered public accounting firm. The Audit Committee also recommends to the Board the appointment of our independent registered public accounting firm.

The Audit Committee is currently composed of three directors: Mr. Roddy, Chairman, Dr. Wallen and Mr. Severinghaus. The Audit Committee is governed by a written Audit Committee Charter adopted by the Board. The Audit Committee charter can be found in the Investor Relations section of our website at <http://www.vermillion.com>. In fiscal year 2010, the Audit Committee met seven times and acted by written consent four times.

The Board has determined that all members of our Audit Committee are independent, as the term is currently defined in NASDAQ Listing Rules 5605(a)(2). The Board has determined that Mr. Roddy qualifies as an "audit committee financial expert," as defined in applicable rules. The Board made a qualitative assessment of Mr. Roddy's level of knowledge and experience based on a number of factors, including his experience as the chief financial officer of several companies.

Compensation Committee

The Compensation Committee of the Board acts on behalf of the Board to review, adopt and oversee our compensation strategy, policies, plans and programs. The Compensation Committee reviews and recommends to the Board for approval the compensation (*i.e.*, salary, bonus and stock-based compensation grants) and other terms of employment or service of our Chief Executive Officer and other executive officers, reviews with management our Compensation Discussion and Analysis for inclusion in our proxy statements and other Securities and Exchange Commission (the "SEC") filings, and administers our 2010 Stock Incentive Plan. The Compensation Committee has the authority to retain compensation consultants to assist in its evaluation of executive and director compensation, including the authority to approve the consultant's reasonable fees and other retention terms. In 2010, the Compensation Committee engaged Arnosti Consulting, Inc. to analyze the compensation for each director and officer of the Company.

The Compensation Committee is currently composed of two directors: Mr. Severinghaus, Chairman, and Dr. Wallen. The Board has determined that both members of our Compensation Committee are independent pursuant to NASDAQ Listing Rule 5605(a)(2). The Compensation Committee has adopted a written charter that can be found in the Investor Relations section of our website at <http://www.vermillion.com>. The Compensation Committee met five times and acted by written consent twice in 2010.

The performance and compensation process and specific determinations of the Compensation Committee with respect to executive compensation for 2010 are described in greater detail in the Compensation Discussion and Analysis section of this proxy statement.

Compensation Committee Interlocks and Insider Participation

None of the members of our Compensation Committee was an officer or employee of us, was formerly an officer of us or had any relationship with us, except that we have entered into indemnification agreements with each of our directors, which require us to indemnify our directors to the fullest extent permitted by law in the State of Delaware.

None of our executive officers serves as a member of the Board of Directors or Compensation Committee of any entity that has one or more of its executive officers serving as a member of our Board of Directors or Compensation Committee.

Nominating and Governance Committee

Our Nominating and Governance Committee currently consists of Dr. Wallen, Chairman and Mr. Severinghaus. The Nominating and Governance Committee met once and acted by written consent once in 2010.

The Nominating and Governance Committee is responsible for identifying individuals qualified to serve as members of the Board, recommending to the independent members of the Board nominees for election as our directors, and providing oversight with respect to corporate governance and ethical conduct. The Board has determined that both Dr. Wallen and Mr. Severinghaus are “independent directors” as currently defined in NASDAQ Listing Rule 5605(a)(2). Our director nomination process meets applicable NASDAQ requirements because our director nominees are selected by the independent members of the Board. The Nominating and Governance Committee has adopted a written charter that can be found in the Investor Relations section of our website at <http://www.vermillion.com>.

The information below describes the criteria and process that the Nominating and Governance Committee uses to evaluate candidates to the Board.

Board Membership Criteria

The Nominating and Governance Committee is responsible for assessing the appropriate balance of experience, skills and characteristics required of the Board. Nominees for director are selected on the basis of depth and breadth of experience, knowledge, integrity, ability to make independent analytical inquiries, understanding of our business environment, the willingness to devote adequate time to Board duties, the interplay of the candidate’s experience and skills with those of other Board members, and the extent to which the candidate would be a desirable addition to the Board and any Committees of the Board. Although there is no specific policy regarding diversity in identifying director nominees, both the Nominating and Governance Committee and the Board seek the talents and backgrounds that would be most helpful to us in selecting director nominees. In particular, the Nominating and Governance Committee, when recommending director candidates to the full Board for nomination, may consider whether a director candidate, if elected, assists in achieving a mix of Board members that represents a diversity of background and experience.

Stockholders Proposals for Nominees

The Nominating and Governance Committee will consider written proposals from stockholders for nominees for director. Any such nominations should be submitted to the Nominating and Governance Committee c/o our Corporate Secretary and should include (at a minimum) the following information: (a) all information relating to such nominee that is required to be disclosed pursuant to Regulation 14A under the Exchange Act, including such person's written consent to being named in the proxy statement as a nominee and to serving as a director if elected; (b) the name(s) and address(es) of the stockholder(s) making the nomination and the number of shares of our common stock which are owned beneficially and of record by such stockholder(s); and (c) appropriate biographical information and a statement as to the qualifications of the nominee, and should be submitted in the time frame described under "Information About the Annual Meeting and Voting—Submission of Stockholder Proposals for the 2011 Annual Meeting" above.

Process for Identifying and Evaluating Nominees

The Nominating and Governance Committee initiates the process for identifying and evaluating nominees to the Board by identifying a slate of candidates who meet the criteria for selection as nominees and have the specific qualities or skills being sought based on input from members of the Board, management and, if the Nominating and Governance Committee deems appropriate, a third-party search firm. Candidates are evaluated by the Nominating and Governance Committee on the basis of the factors described above under "Board Membership Criteria." With respect to candidates for initial election to the Board, the Nominating and Governance Committee also reviews biographical information and qualifications and checks the candidates' references. Qualified candidates are interviewed by at least one member of the Nominating and Governance Committee. Serious candidates meet, either in person or by telephone, with all members of the Nominating and Governance Committee and as many other members of the Board as practicable.

Using the input from interviews and other information obtained, the Nominating and Governance Committee evaluates which of the prospective candidates is qualified to serve as a director and whether the committee should recommend to the independent members of the Board that the Board nominate, or elect to fill a vacancy with, a prospective candidate. Candidates recommended by the Nominating and Governance Committee are presented to the independent members of the Board for selection as nominees to be presented for the approval of the stockholders or for election to fill a vacancy. The Nominating and Governance Committee expects that a similar process will be used to evaluate nominees recommended by stockholders.

Nominees to the Board of Directors for the Annual Meeting

The nominees for the Annual Meeting were recommended for selection by the Nominating and Governance Committee and were selected by the independent members of the Board.

Code of Ethics

We have adopted the Vermillion, Inc. Code of Ethics that applies to all our officers, directors and employees. The Code of Ethics is available under the Investor Relations section of our website at <http://www.vermillion.com>. We will disclose on our website any waiver of, or amendment to, the Code of Ethics.

Stockholder Communications

Our stockholders may communicate directly with the Board of Directors in writing, addressed to:

Board of Directors
c/o Corporate Secretary
Vermillion, Inc.
12117 Bee Caves Road, Building Two, Suite 100
Austin, Texas 78738

The Corporate Secretary will review each stockholder communication. The Corporate Secretary will forward to the entire Board (or to members of a committee thereof, if the communication relates to a subject matter clearly within that committee's area of responsibility) each communication that (a) relates to our business or governance, (b) is not offensive and is legible in form and reasonably understandable in content, and (c) does not merely relate to a personal grievance against us, a director, a member of the management, or other employees of us, or to further a personal interest not shared by the other stockholders generally.

COMPENSATION OF DIRECTORS

Director Compensation

Outside directors (*i.e.*, non-employee directors) are compensated for their service as (1) a member of the Board of Directors, (2) a member of any committee of the Board of Directors, and (3) a chair of any committee of the Board of Directors. Currently, we have adopted a compensation program to grant restricted stock units (“RSUs”) to outside directors with a targeted value on the grant date. The number of RSUs granted is determined by dividing the targeted value by a trailing average price of our common stock on the date of grant of the RSUs. The RSUs vest in four equal quarterly installments over the course of the fiscal year, with the vesting commencement date starting on January 1 each year. Periodically, the Compensation Committee reviews and determines the adequacy of the compensation program for outside directors, and based upon the results of their analysis, the Compensation Committee will make recommendations in regards to the compensation program for outside directors to the Board of Directors. During fiscal year 2010, the outside directors were compensated as follows:

- each outside directors received 13,000 RSUs;
- the chairperson of the Audit Committee received 2,500 RSUs;
- the chairperson of the Compensation Committee received 2,000 RSUs;
- the chairperson of the Nominating and Governance Committee received 1,500 RSUs;
- the other members of the Compensation Committee and the Nominating and Governance Committee each received 1,000 RSUs;
- the other members of the Audit Committee received 1,500 RSUs; and
- the other member of the Special Compensation Committee received 5,000 RSUs.

The Bankruptcy Court approved a Debtor’s Incentive Plan on April 14, 2010 in recognition of Ms. Page, Mr. Burns and Mr. Hamilton’s services during the bankruptcy proceedings. Under the Debtor’s Incentive Plan, we were directed to distribute an aggregate of \$5,000,000 in cash and 302,541 shares of restricted stock in Debtor’s Incentive Plan Payments to Ms. Page, Mr. Burns and Mr. Hamilton. The total Debtor’s Incentive Plan cash payments and restricted stock awards were allocated to Ms. Page, Mr. Burns and Mr. Hamilton on a 60%-20%-20% basis, respectively. Such Debtor’s Incentive Plan compensation was not attributable to the three directors as compensation for the year of 2009 because we did not receive approval to make the awards (and did not in fact make any cash or restricted stock awards) until April 2010. The restricted stock awards do, however, provide for retroactive vesting credit for 1/24th of the total award on each monthly anniversary of the vesting commencement date (June 22, 2009).

The compensation earned by our outside directors for the year ended December 31, 2010 was as follows:

<u>Name</u>	<u>Fees Earned or Paid in Cash</u>	<u>Stock Awards⁽²⁾</u>	<u>Option Awards⁽³⁾</u>	<u>Non-Equity Incentive Plan Compensation</u>	<u>Nonqualified Deferred Compensation Earnings</u>	<u>All Other Compensation</u>	<u>Total</u>
James S. Burns ⁽¹⁾	\$1,000,000	\$337,808	\$ —	\$—	\$—	\$—	\$1,337,808
John F. Hamilton ⁽¹⁾	1,000,000	337,808	16,875	—	—	—	1,354,683
Peter S. Roddy	—	86,335	—	—	—	—	86,335
Carl Severinghaus	—	97,475	—	—	—	—	97,475
William C. Wallen, Ph.D.	—	122,540	—	—	—	—	122,540
Total	<u>\$2,000,000</u>	<u>\$981,966</u>	<u>\$16,875</u>	<u>\$—</u>	<u>\$—</u>	<u>\$—</u>	<u>\$2,998,841</u>

(1) Fees earned or paid in cash and stock awards include compensation earned under the Debtor’s Incentive Plan.

(2) All outside directors received RSUs.

(3) For awards of options, the aggregate grant date fair value is computed in accordance with FASB ASC Topic 718 (column (d)).

PROPOSAL TWO: ADVISORY VOTE REGARDING THE COMPENSATION OF OUR NAMED EXECUTIVE OFFICERS

In accordance with Section 951 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 (the “Dodd-Frank Act”), our stockholders are entitled to cast an advisory vote to approve the compensation of our Named Executive Officers as disclosed in the Compensation Discussion and Analysis of this Proxy Statement.

We believe that our compensation policies and procedures align with the long-term interests of our stockholders. Our compensation program is guided by the philosophy that total executive compensation should vary based on achievement of goals and objectives, both individual and corporate, and should be focused on long-term strategies to build stockholder value. The Compensation Committee acts diligently to provide compensation opportunities that are competitive and that emphasize performance with a long-term perspective. We believe that our philosophy and practices have resulted in executive compensation decisions that are appropriate and that have benefited the Company over time.

This vote is advisory, which means that this proposal is not binding. Nonetheless, our Board of Directors and our Compensation Committee value the opinions of our stockholders and will consider the outcome of the vote when making future compensation decisions for our Named Executive Officers.

Required Vote; Recommendation

The affirmative vote of a majority of the shares present at the Annual Meeting either in person or by proxy and entitled to vote is required to approve the compensation of our Named Executive Officers. Abstentions from voting and broker non-votes will be counted for purposes of determining whether a quorum exists but will have no impact on the vote to approve the compensation of our Named Executive Officers.

OUR BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT YOU VOTE “FOR” THE COMPENSATION OF OUR NAMED EXECUTIVE OFFICERS AS DISCLOSED IN THIS PROXY STATEMENT.

PROPOSAL THREE: FREQUENCY OF VOTE ON EXECUTIVE COMPENSATION

In accordance with Section 951 of the Dodd-Frank Act, stockholders are also able to vote to recommend, on an advisory basis, how frequently they believe an advisory vote on executive compensation, such as we have included in Proposal Two, should occur. By voting on this proposal, you may indicate whether you would prefer that we hold an advisory vote on executive compensation every year, every other year or every three years.

The Board of Directors has determined that stockholders should have an opportunity every three years to vote on the compensation of our Named Executive Officers. In reaching this determination, the Board considered that a three-year cycle will provide investors sufficient time to evaluate the effectiveness of our short- and long-term compensation strategies and the related business outcome of the Company. In addition, a three-year vote cycle also gives our board and the Compensation Committee sufficient time to thoughtfully respond to stockholders' sentiments and to implement any necessary changes to our executive compensation policies and procedures.

This is an advisory vote, which means that this proposal is not binding. Regardless, our Compensation Committee values the opinions expressed by stockholders and expects to implement the frequency which receives the greatest level of support from our stockholders. While we believe that a vote once every three years is the best choice for us, you are not voting to approve or disapprove our recommendation of three years, but rather to make your own choice among a vote once every year, every two years or every three years. You may also abstain from voting on this Proposal.

Required Vote; Recommendation

Among the three choices of a vote once every year, every two years or every three years, the choice receiving the most votes at the Annual Meeting will be the option recommended by the stockholders. Abstentions from voting and broker non-votes will be counted for purposes of determining whether a quorum exists but will have no impact on the vote to determine the frequency of the advisory vote on executive compensation.

OUR BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT YOU VOTE IN FAVOR OF A VOTE ON OUR EXECUTIVE COMPENSATION PROGRAM ONCE EVERY THREE YEARS.

EXECUTIVE OFFICERS

Set forth below is the information about our executive officers:

<u>Name</u>	<u>Age</u>	<u>Positions</u>
Gail S. Page	55	Chair of the Board; President and Chief Executive Officer
Sandra A. Gardiner	45	Vice President, Chief Financial Officer
Eric T. Fung, M.D., Ph.D.	41	Senior Vice President and Chief Science Officer
William Creech	58	Vice President of Sales and Marketing
Ashish Kohli, CFA	42	Vice President of Corporate Strategy

Gail S. Page's biography can be found under "INFORMATION REGARDING THE BOARD OF DIRECTORS, COMMITTEES, AND CORPORATE GOVERNANCE."

Sandra A. Gardiner has been Vice President and Chief Financial Officer since May 2010. Prior to joining us, Ms. Gardiner served as Chief Financial Officer of Bend Research Inc., a company that specializes in the definition, advancement, development and commercialization of pharmaceutical and health science technologies, since March 2009. In April 2009, she was elected to Bend Research Inc.'s board of directors. From 2004 through 2008, Ms. Gardiner served as Chief Financial Officer and Corporate Secretary of Lipid Sciences, Inc., responsible for all decision-making authority for all financial and administrative functions for this development stage biotechnology company, which is engaged in research and development of products and processes to treat cardiovascular disease and viral infections. She also held positions at Cardima, Inc. and Comac and began her biotechnology career in 1988 with Advanced Cardiovascular Systems, formerly a division of Guidant, holding several positions in the Internal Audit, Accounting and Finance departments. Ms. Gardiner received her Bachelor of Science in Managerial Economics from the University of California at Davis.

Eric T. Fung, M.D., Ph.D. joined us in May 2000 as a lead scientist in the newly formed Biomarker Discovery Centers. He was promoted to Vice President of Medical and Clinical Affairs and Chief Scientific Officer in June 2006. Dr. Fung resigned from his position on March 19, 2009 and worked as a consultant to us from September 2009 to January 2010. Dr. Fung was reappointed as our Senior Vice President and Chief Science Officer in February 2010. Prior to joining us, Dr. Fung was a Howard Hughes sponsored researcher at Stanford University. Dr. Fung has anatomic pathology training from Stanford Medical School and obtained his M.D. and Ph.D. degrees from the Johns Hopkins University School of Medicine. He graduated with a B.S. with honors from the California Institute of Technology. Dr. Fung has held an Adjunct Assistant Professor position in the Department of Pathology at the Johns Hopkins University School of Medicine.

William Creech joined us in March 2010 as Vice President of Sales and Marketing. Prior to joining us, Mr. Creech served as Principal of WBC Consulting, where he provided strategic and tactical consulting services to clients in the medical devices industry, and as Vice President of Sales and Marketing at Capitol Vial, Inc. and Vice President of Corporate Accounts at Apogent. Mr. Creech has also held various sales and sales management positions at Chiron, Ciba Corning/Chiron Diagnostics, and Abbott Diagnostics. Mr. Creech is a veteran of the United States Army and graduated with a B.S. from Florida Southern College.

Ashish Kohli, CFA joined us in September 2010 as Vice President of Corporate Strategy and is responsible for investor relations, international expansion and business development. Prior to joining us, Mr. Kohli served as a Buy-Side Equity Analyst at Columbia Wanger Asset Management from July 2005 to June 2010. From 2000 through 2005, he worked at William Blair & Company, the first three years as a Sell-Side Equity Associate, and the last two years as a Sell-Side Equity Analyst. Previously, he held an Emerging Markets Debt Analyst position at Brinson Partners, Inc. Mr. Kohli received his Master of Business Administration from Texas Tech University and his Bachelor of Science in Computer Engineering and Bachelor of Science in Biochemistry from McMaster University in Hamilton, Ontario.

COMPENSATION COMMITTEE REPORT ¹

Our executive compensation program for our Named Executive Officers (“NEOs”) is administered by the Compensation Committee of the Board of Directors. The Compensation Committee has reviewed the Compensation Discussion and Analysis and discussed that analysis with management. Based on its review and discussions with management, the Compensation Committee recommended to the Board of Directors that the Compensation Discussion and Analysis be included in this proxy statement.

This report is provided by the following independent directors of the Compensation Committee:

Carl Severinghaus, Chairman
William C. Wallen

¹ The information provided under the heading “Compensation Committee Report” shall not be deemed to be “soliciting material” or “filed” or incorporated by reference in future filings with the SEC, or subject to the liabilities of Section 18 of the Exchange Act, except to the extent that it is specifically incorporated by reference into a document filed under the Securities Act of 1933, as amended (the “Securities Act”) or the Exchange Act.

COMPENSATION DISCUSSION AND ANALYSIS

This section describes the compensation program for our named executive officers, referred to herein as NEOs. In particular, this section focuses on our 2010 compensation program and related decisions. The Compensation Committee annually reviews our executive compensation program to ensure that it appropriately rewards performance that is tied to sound decision-making and creating stockholder value, and is designed to achieve our goals of promoting financial and operational success by attracting, motivating and facilitating the retention of key employees with outstanding talent and ability.

Executive Officers During 2010

The following executive officers named in the management table above did not serve in such capacities during the entirety of 2010: Ms. Page, who resigned from her position as President and Chief Executive Officer on March 27, 2009, was elected to and assumed the position of Chair of the Board of Directors on March 30, 2009, and was reappointed as our President and Chief Executive Officer on February 1, 2010; Ms. Gardiner, who was appointed as our Vice President and Chief Financial Officer on April 19, 2010; Dr. Fung, who resigned from his position as Vice President and Chief Science Officer on March 19, 2009, worked as a consultant for us from September 2009 to January 2010, and was appointed Senior Vice President and Chief Science Officer on February 1, 2010; Mr. Creech, who joined us in March 2010 as Vice President of Sales and Marketing; and Mr. Kohli, who joined us in September 2010 as Vice President of Corporate Strategy. John H. Tran was appointed as our Interim Vice President of Finance and Chief Accounting Officer on February 1, 2010 until his resignation on August 31, 2010.

Set forth below is a brief description of Mr. Tran's business experience.

John H. Tran, age 35, joined us on February 1, 2010, and served as Interim Vice President of Finance and Chief Accounting Officer until his resignation on August 31, 2010. Prior to joining us, Mr. Tran served as Vice President, Finance and Chief Accounting Officer at Anesiva, Inc., a late-stage biopharmaceutical company in the development and commercialization of novel pharmaceutical products for pain management, from May 2008 to January 2010. From September 2004 to April 2008, Mr. Tran served in various roles in finance and was the Director of Finance at Kyphon Inc., a medical device company. Mr. Tran became part of Medtronic, Inc. through its 2007 acquisition of Kyphon Inc. From January 2000 to September 2004, Mr. Tran served as an Audit Senior in the audit and assurance practice with PricewaterhouseCoopers LLP. Mr. Tran received his B.A. in Biology and Business Economics with Accounting Emphasis from the University of California at Santa Barbara. Mr. Tran is also a certified public accountant in the State of California.

Compensation Philosophy and Objectives

The goal of our compensation program for our NEOs is the same as for the overall Company, which is to foster compensation policies and practices that attract, engage and motivate high caliber talent by offering compensation in a competitive range. We are committed to a total compensation philosophy and structure that provides flexibility in responding to market factors; rewards and recognizes superior performance; attracts highly skilled, experienced and capable employees; and is fair and fiscally responsible.

The Compensation Committee has designed and implemented compensation programs for our NEOs to reward them for their leadership excellence, for sustaining our financial and operating performance, to align their interests with those of our stockholders and to encourage them to remain with us for long and productive careers. Because bonus and equity compensation play a key role in aligning our executives' interests with our stockholders' interests, annual incentives and equity incentives constitute an essential portion of the NEOs compensation. However, most of our compensation elements simultaneously fulfill one or more performance, alignment and/or retention objectives.

Base salary and annual bonus are designed to reward annual achievements and be commensurate with the executive's scope of responsibilities, demonstrated leadership abilities, and management experience and effectiveness. Our other elements of compensation focus on motivating and challenging the executive to achieve superior, longer-term, sustained results.

In establishing compensation for the NEOs, the following are the Compensation Committee's objectives:

- Attract, retain, reward and motivate high performing executive talent;
- Ensure senior officer compensation is aligned with the Company's corporate strategies, business objectives and the long-term interests of the Company's stockholders;
- Increase the incentive to achieve key strategic, financial and operational performance measures by linking incentive award opportunities to the achievement of performance goals in these areas;
- Ensure that the elements of compensation, individually and in the aggregate, do not encourage excessive risk-taking; and
- Enhance the officers' incentive to increase the Company's long term value, as well as promote retention of key people, by providing a portion of total compensation opportunities for senior management in the form of direct ownership in the Company through stock ownership.

The Compensation Committee reviews all components of the NEOs' compensation, including annual base salary, bonuses based on corporate and individual performance, and equity compensation, perquisites and termination-based compensation. For equity incentive compensation, which includes grants of RSUs and stock options, the Compensation Committee reviews accumulated realized and unrealized stock options and RSU gains. The Compensation Committee also reviews the dollar value to the executive and cost to the Company of all perquisites, as well as the actual and projected payout obligations under several potential severance and change in control scenarios. In addition, from time to time, the Compensation Committee may hire compensation and benefits consultants to assist in developing and reviewing overall executive compensation strategies. The Compensation Committee also receives input from the CEO regarding the compensation of all executives other than herself.

Compensation Components

The Company's executive compensation program is designed to attract executives with the requisite skills necessary to support the Company's strategic objectives, to reward executives for the achievement of near-term and long-term objectives, and to retain executives by aligning compensation with the longer-term creation of stockholder value, by developing a sustainable business with consistent performance.

The Company's compensation program is comprised of the following components for the NEOs:

- Base Salaries;
- Annual Incentive Bonus;
- Equity Incentives;
- Employment Agreements providing for severance and change in control benefits; and
- Certain perquisites as well as 401(k) plan, health and welfare plan benefits.

The Compensation Committee believes that these elements of compensation, when combined, are effective, and will continue to be effective, in achieving the overall objectives of the Company's compensation program.

Consultants and Advisors. The Compensation Committee has the authority under its charter to retain outside consultants or advisors, as it deems necessary or advisable. In 2010 the Compensation Committee engaged Arnosti Consulting, Inc. to analyze each component of executive compensation, including base salaries, annual incentive bonus and long term equity incentives, for each director and officer of the Company.

Target Compensation Philosophy. The Compensation Committee analyzes and considers relevant survey data in conjunction with compensation consultant recommendations when setting potential executive compensation target ranges for base salaries, annual incentive bonus and long term equity incentives to ensure the Company's ability to recruit and retain high caliber talent. In assessing market competitiveness of total executive compensation packages, the compensation of the Company's NEOs are reviewed against executive compensation survey data for selected comparator companies. For 2010, the comparator companies consisted of twelve companies similar to the Company in terms of their size (for example, revenue and market capitalization), industry and global presence, and have executive officer positions that are comparable in terms of breadth, complexity and scope of responsibilities.

The Compensation Committee analyzes each component of executive compensation, including base salaries, annual incentive bonus and long term equity incentives, against the comparator companies focusing on the range between the mean percentile and the 60th percentile. To establish a competitive advantage in attracting and retaining key executive officers and to emphasize the Compensation Committee's objectives, the Compensation Committee strives to set competitive ranges for each compensation component. To remain consistent from year to year, the Company currently intends to use similar comparator groups as part of the Company's annual marketplace analysis. The specific companies included in the comparator group may change from year to year based on their size, relevance or other pertinent factors.

Base Salaries. Executive salaries are determined based on the data from the Company's comparator group, on evaluation of each officer's individual performance throughout the year, level of responsibility, overall salary structure, budget guidelines and assessment of the Company's financial condition. This approach ensures that the Company's cost structure will allow it to remain competitive in its markets. Salaries paid to the NEOs in fiscal 2010 were within the targeted range. The Compensation Committee normally reviews and adjusts as appropriate the base salaries for the NEOs in the first half of each calendar year. In 2009, due to the bankruptcy proceeding and the drastic cost-cutting measures that the bankruptcy proceeding entailed, NEOs were terminated and retained as consultants to the extent absolutely critical. In connection with our emergence from bankruptcy, Ms. Page was reappointed as our Chief Executive Officer on February 1, 2010 and Dr. Fung was reappointed as our Senior Vice President, Chief Science Officer on February 1, 2010. Our remaining NEOs were hired in March 2010 and thereafter. In March, 2011, after reviewing the compensation consultant's recommendations, along with comparator companies, the Compensation Committee adjusted the base salaries for Ms. Gardiner from \$240,000 to \$256,000, Dr. Fung from \$275,000 to \$285,000, and Mr. Creech from \$175,000 to \$225,000.

Annual Bonuses. Annual incentive bonus programs were suspended in 2009 due to our financial difficulties. Subsequent to emerging from bankruptcy, the Compensation Committee resolved to re-establish an annual incentive bonus program. Consistent with our objectives to tie a significant portion of the NEOs' total compensation to our performance, all NEOs have a target bonus of a fixed percentage of their salary. Our annual incentive bonus program is an "at-risk" compensation arrangement designed to reward our NEOs for the achievement of key strategic, operational and financial goals that we believe will provide the foundation for creating longer-term stockholder value. Bonus awards are subject to the achievement of corporate and individual objectives established by the Compensation Committee of the Board each year. Weight values are assigned to each objective in order to ensure a balanced approach to the various factors applied to determining bonus amounts.

At the end of each year the Compensation Committee determines the bonuses awarded under the program based on the achievement of our corporate objectives for the year, the overall performance of the executive officers as a group, the overall success of the Company and development of our business, and the discretion of the Compensation Committee and the Board. The Compensation Committee generally establishes the individual payout targets for each NEO based on the executive's position, level of responsibility and a review of the compensation information of other similar companies. For all program participants, annual cash incentive

opportunities are targeted at the 50th percentile of the market. For 2010, the payout targets for each NEO were as follows:

Gail S. Page	50% of annual base salary
Sandra A. Gardiner	40% of annual base salary
Eric T. Fung, M.D., Ph.D.	50% of annual base salary
William Creech	30% of annual base salary
Ashish Kohli, CFA	30% of annual base salary

For the fiscal year 2010, the Compensation Committee established semi-annual goals in lieu of annual goals given the state of the Company as it related to the emergence from Chapter 11 and its reestablishment. The incentive bonus goals for the first half of fiscal 2010 focused primarily on the successful launch of OVA1 in conjunction with the financial and operational requirements necessary to rebuild the business and gain compliance with all regulatory authorities following the receipt of confirmation of our Plan of Reorganization in January 2010. The incentive bonus goals for the second half of fiscal 2010 focused primarily on the commercialization of OVA1, advancing our pipeline, and maintaining a strong cash position.

In its evaluation of performance for the first six months of fiscal year 2010, the Compensation Committee considered the launch of OVA1 on March 9, 2010, the adjudication to Quest Diagnostics by the Medicare contractor Highmark Medicare Services, the achievement of SEC compliance on May 20, 2010, and the relisting of our common stock on the Nasdaq Global Market on July 6, 2010. As a result of this evaluation, the Compensation Committee determined that the targets for the first six months of fiscal year 2010 had substantially been met, resulting in the following payouts to each NEO employed by us during such period, and pro-rated for their respective duration of employment:

Gail S. Page	\$78,125
Sandra A. Gardiner	\$16,000
Eric T. Fung, M.D., Ph.D.	\$57,292
William Creech	\$21,875

At the end of the year, the Compensation Committee evaluated the performance of the Company and of the NEOs in achieving previously established goals. In this regard the Committee determined that the corporate objectives were all largely achieved. In making this determination, the Committee considered the progress with respect to the issuance of positive coverage policies for OVA1 by 9 independent BCBS plans, a total of approximately 68 million covered lives at December 31, 2010, the successful renegotiation of our Strategic Alliance Agreement with Quest Diagnostics, obtaining CE Mark for OVA1 in preparation for a 2011 European launch, initiating an intended use study for our PAD test, VASCLIR™, and closing the 2010 fiscal year with \$22.9 million in cash and cash equivalents. As a result of this evaluation, the payouts to each NEO employed by us during such period, and pro-rated for their respective duration of employment, were as follows:

Gail S. Page	\$101,002
Sandra A. Gardiner	\$ 50,370
Eric T. Fung, M.D., Ph.D.	\$ 72,145
William Creech	\$ 27,546
Ashish Kohli, CFA	\$ 18,889

On March 18, 2011, the Compensation Committee reviewed and adjusted as appropriate the bonus payout targets for each NEO for fiscal year 2011. The payout targets for each of Messrs. Creech and Kohli were increased from 30% of annual base salary to 40% of annual base salary. The payout targets for the rest of the NEOs remained the same as fiscal year 2010.

Equity Incentive Compensation. The equity component of our executive compensation program is designed to fulfill our performance alignment and retention objectives. We previously maintained the Vermillion, Inc. 2000 Stock Plan (the “2000 Stock Plan”), which expired in 2010. We will make future equity awards under the Vermillion, Inc. 2010 Stock Incentive Plan (the “2010 Plan”), which was approved by the Board of Directors on February 8, 2010 and by the stockholders on December 3, 2010. The 2010 Plan will be administered by the Compensation Committee of the Board. Our employees, directors, and consultants are eligible to receive awards under the 2010 Plan. The 2010 Plan permits the granting of a variety of awards, including stock options, share appreciation rights, restricted shares, restricted share units, unrestricted shares, deferred share units, performance and cash-settled awards, and dividend equivalent rights. The 2010 Plan provides for issuance of up to 1,322,983 shares of common stock, subject to adjustment as provided in the 2010 Plan.

In general, the NEOs receive incentive stock option grants at the time of hire; annually thereafter, they receive restricted stock units, as recommended by the Compensation Committee. Stock option grants and restricted stock units are based on individual performance and contributions toward the achievement of our business objectives, as well as overall Company performance. The number of underlying shares that may be purchased pursuant to the stock options granted to each NEO varies based on the executive’s position and responsibilities. In addition, amounts are determined by comparing the level of equity-based compensation that is awarded to executives of competing companies.

In 2010, NEO Gail S. Page, pursuant to the Debtor’s Incentive Plan (as discussed further below) received restricted stock awards. In 2010, NEO Eric T. Fung, M.D., Ph.D., pursuant to the 2010 Plan and as determined by the Board of Directors in its discretion, received restricted stock awards related to our emergence from bankruptcy. In addition, each NEO received stock option grants pursuant to their initial date of hire. The number of shares subject to these stock option grants was determined by the Compensation Committee solely in its discretion based on ranges that take into consideration an executive’s job responsibilities and competitive market data. The grants of stock-based awards to NEOs during the year ended December 31, 2010 was as follows:

<u>Name</u>	<u>Restricted Stock Awards: Number of Shares of Stock or Units</u>	<u>All Other Option Awards: Number of Securities Underlying Options</u>
Gail S. Page	181,525 ⁽¹⁾	—
Sandra A. Gardiner	—	40,000
Eric T. Fung, M.D., Ph.D.	20,169 ⁽²⁾	75,000
William Creech	—	10,000
Ashish Kohli, CFA	—	30,000

(1) Issued pursuant to the Debtor’s Incentive Plan

(2) Issued related to our emergence from bankruptcy

Although not included in 2010 awards due to the exigencies associated with our reorganization and emergence from bankruptcy, the 2010 Plan generally authorizes us to make awards reserving the following recourse against a participant who does not comply with certain employment-related covenants, either during employment or for certain periods after ceasing to be employed: we may terminate any outstanding, unexercised, unexpired, unpaid, or deferred awards; rescind any exercise, payment or delivery pursuant to the award; or recapture any shares (whether restricted or unrestricted) or proceeds from the participant’s sale of shares issued pursuant to the award. These remedies are also generally available to us for awards that would have had a lower

grant level, vesting, or payment if a participant's fraud or misconduct had not caused or partially caused the need for a material financial restatement by us or any affiliate. In addition, all awards or proceeds from the sale of awards made or earned pursuant to the 2010 Plan will be subject to the right of us to full recovery (with reasonable interest thereon) in the event that the Board determines reasonably and in good faith that any participant's fraud or misconduct has caused or partially caused the need for a material restatement of our financial statements for any fiscal year to which the award relates.

Employee Benefits Programs. Our employee benefits program primarily consists of two components: (1) severance and change in control arrangements and (2) perquisites and other benefits.

Severance and Change in Control Arrangements. The Compensation Committee believes that executive officers have a greater risk of job loss or modification as a result of a change in control transaction than other employees. Accordingly, our employment agreement with the Chief Executive Officer includes change of control provisions, and we have also entered into change in control agreements with our Chief Financial Officer and Chief Science Officer under which they will receive certain payments and benefits upon qualifying terminations that follow a change in control. The principal purpose of the change in control agreements is to provide executive officers with appropriate incentives to remain with us before, during and after any change in control transaction by providing the executive officers with security in the event their employment is terminated or materially changed following a change in control. By providing this type of security, the change in control agreements help ensure that the executive officers support any potential change in control transaction that may be in the best interests of our stockholders, even while the transaction may create uncertainty in the executive officer's personal employment situation. The Compensation Committee believes that the payment of salary and benefits for one year for the Chief Executive Officer, nine months for the Chief Science Officer and six months for the Chief Financial Officer is reasonable and appropriate to achieve the desired objectives of the agreements.

Perquisites and Other Benefits. Our NEOs participate in our standard employee benefits programs including medical, dental, life, short-term and long-term disability insurance, and flexible spending accounts.

Method for Determining Compensation Amounts

In deciding on the type and amount of compensation for each executive, the Compensation Committee seeks to align the interests of the NEOs with those of our stockholders. In making compensation decisions, the Compensation Committee reviews the performance of the company and carefully evaluates an executive's performance during the year against established goals, leadership qualities, operational performance, business responsibilities, career with the company, current compensation arrangements and long-term potential to enhance shareowner value. The types and relative importance of specific financial and other business objectives vary among our NEOs depending on their positions and the particular operations or functions for which they are responsible. The Compensation Committee does not adhere to rigid formulas when determining the amount and mix of compensation elements. Compensation elements for each executive are reviewed in a manner that optimizes the executive's contribution to the Company, and reflects an evaluation of the compensation paid by our competitors.

The Compensation Committee reviews both current pay and the opportunity for future compensation to achieve an appropriate mix between equity incentive awards and cash payments in order to meet our objectives. However, prior stock compensation gains are not considered in setting future compensation levels. The mix of compensation elements is designed to reward recent results and motivate long-term performance through a combination of cash and equity incentive awards.

The Compensation Committee has primary responsibility for assisting the Board of Directors in developing and evaluating potential candidates for executive positions, including the Chief Executive Officer, or CEO. As part of this responsibility, the Committee oversees the design, development and implementation of the compensation program for the CEO and the other named executives. The Compensation Committee evaluates the performance of the CEO and determines CEO compensation in light of the goals and objectives of the

compensation program. The CEO and the Compensation Committee assess the performance of the other named executives and determine their compensation, based on initial recommendations from the CEO with the assistance of a Compensation Consultant.

The Compensation Committee approves stock option grants for NEOs at the time of hire, and thereafter, the Compensation Committee annually reviews and approves restricted stock units. Stock option grants and restricted stock units are based on individual performance and contributions toward the achievement of our business objectives, as well as overall Company performance. Amounts are determined by comparing the level of equity-based compensation awarded to executives of competing companies, along with consideration for attracting, retaining and motivating the executive officers. We do not maintain specific stock ownership guidelines, and do not currently have a policy for recovering awards or payments if we are required to restate corporate financials.

Compensation Policies and Practices Regarding Risk Management

In fulfilling its role in assisting the Board in its risk oversight responsibilities, the Compensation Committee believes that our compensation policies and practices do not motivate imprudent risk taking. Specifically, the Compensation Committee reviewed the following features of our compensation programs that guard against excessive risk-taking:

- our annual incentive compensation is based on balanced performance metrics that promote disciplined progress towards longer-term Company goals;
- we do not offer significant short-term incentives that might drive high-risk investments at the expense of long-term Company value; and
- our compensation awards are capped at reasonable and sustainable levels, as determined by a review of the economic position and prospects, as well as the compensation offered by comparable companies.

Tax and Accounting Considerations

Section 162(m) of the Internal Revenue Code (the “Code”) disallows a tax deduction to publicly-held companies for certain compensation in excess of \$1,000,000 paid to our chief executive officer and three other officers (other than the chief financial officer) whose compensation is required to be reported to our stockholders pursuant to the Exchange Act. Certain performance-based compensation approved by our stockholders, including option grants under the 2010 Stock Plan, generally is not subject to the deduction limit. It is the Compensation Committee’s policy to maximize the effectiveness of our executive compensation in this regard.

We have granted stock options as incentive stock options in accordance with Section 422 of the Code subject to the volume limitations contained in the Code. Generally, the exercise of an incentive stock option does not trigger any recognition of income or gain to the holder. If the stock is held until at least one year after the date of exercise (or two years from the date the option is granted, whichever is later), all of the gain on the sale of the stock, when recognized for income tax purposes, will be capital gain, rather than ordinary income, to the recipient. Consequently, we do not receive a tax deduction. For stock options that do not qualify as incentive stock options, we are entitled to a tax deduction in the year in which the stock options are exercised equal to the spread between the exercise price and the fair market value of the stock for which the stock option was exercised. The holders of the non-qualified stock options are generally taxed on this same amount in the year of exercise.

Named Executive Officer Compensation

President and Chief Executive Officer. On December 31, 2005, we entered into an employment agreement with Ms. Page as our President and Chief Executive Officer. Under the terms of her original employment agreement, Ms. Page had an initial base salary of \$350,000, as adjusted by the Board of Directors from time to

time; was eligible for a bonus of up to 50% of her base salary that is based on the achievement of reasonable performance-related goals as determined by the Board of Directors; had an initial option grant to purchase 40,000 shares of our common stock at \$9.00 per share; and had an annual car allowance of \$10,000. On November 18, 2008, Ms. Page's employment agreement was amended and restated to reflect an annual base salary of \$364,000 and to comply with (or be exempted from) the applicable requirements of Section 409A of the Code. Ms. Page's employment with us was for an unspecified duration and constituted "at-will" employment. At the option of either Ms. Page or us, with or without notice, the employment relationship may be terminated at any time, with or without cause (as defined in the employment agreement) or for any or no cause. If we terminate Ms. Page's employment for reasons other than for cause, or if Ms. Page terminates her employment for good reason (as defined in the employment agreement), Ms. Page, upon executing a release of claims in favor of us will be entitled to receive (i) continued payment of base salary for a period of 12 months, (ii) immediate vesting of 24-months of any options previously granted by us in addition to a 24-month period after termination to exercise any or all of her vested options to purchase our common stock; and (iii) continued health and dental benefits paid by us until the earlier of 12 months after termination or the time that Ms. Page obtains employment with reasonably comparable or better health and dental benefits. Additionally, if Ms. Page's employment is terminated by us for reasons other than for cause or by her for good reason with the 12-month period following a change in control (as defined in the employment agreement), Ms. Page will receive (i) continued payment of base salary for a period of 12 months, (ii) immediate 100% vesting of any then unvested options previously granted by us in addition to a period after termination at the discretion of us to exercise any or all of her vested options to purchase our common stock; and (iii) continued health and dental benefits paid by us until the earlier of 12 months after termination or the time that Ms. Page obtains employment with reasonably comparable or better health and dental benefits. Ms. Page's employment agreement also contains a "nonsolicitation" clause, which provides that, in the event that Ms. Page's employment is terminated, she is prohibited from directly or indirectly soliciting or encouraging any employee or contractor of us or our affiliates to terminate employment with or cease providing services to us or our affiliates; and prohibited from soliciting or interfering with any person engaged by us as a collaborator, partner, licensor, licensee, vendor, supplier, customer or client to our detriment. As a result of the bankruptcy, severance amounts became due to Ms. Page, who was asked to resign from the Company on March 27, 2009. After she was asked to resign, Ms. Page worked as a consultant for us from March 2009 to January 2010. Pursuant to the terms of the consulting agreement between us and Ms. Page, she was paid \$230 per hour for her services as a consultant.

Except as described above, Ms. Page was not otherwise compensated for the year 2009. In recognition of her services during the bankruptcy, the Bankruptcy Court approved a Debtor's Incentive Plan on April 14, 2010, as revised. Under the Debtor's Incentive Plan, we were directed to distribute an aggregate of \$5,000,000 in cash and 302,541 shares of restricted stock in Debtor's Incentive Plan Payments to Ms. Page, Mr. Burns and Mr. Hamilton. The total Debtor's Incentive Plan cash payments and restricted stock awards were ordered by the Bankruptcy Court to be allocated 60% to Ms. Page, and such distribution was approved by our Special Director Compensation Committee. Such Debtor's Incentive Plan compensation is not attributable to Ms. Page as compensation for the year of 2009 because we did not receive approval to make the awards (and did not in fact make any cash or restricted stock awards) until April 2010. The restricted stock awards do, however, provide for retroactive vesting credit for 1/24th of the total award on each monthly anniversary of the vesting commencement date (June 22, 2009).

In connection with our emergence from bankruptcy, Ms. Page was reappointed as our Chief Executive Officer on February 1, 2010. On September 28, 2010, Ms. Page's employment agreement was further amended and restated to increase her annual base salary from \$364,000 to \$385,000.

Vice President and Chief Financial Officer. On April 19, 2010, we entered into an employment agreement with Ms. Gardiner as our Vice President and Chief Financial Officer. Pursuant to the terms of the employment agreement, we will pay Ms. Gardiner an annual salary of at least \$240,000. She will be eligible for a bonus of up to 40% of her base salary for achievement of reasonable performance-related goals to be defined by our Chief Executive Officer or the Board of Directors. In the event Ms. Gardiner is terminated without cause or for good

reason (as defined in the employment agreement), she is entitled to receive (i) continued payment of base salary for a period of 6 months, (ii) immediate vesting of 24-months of any options previously granted by us in addition to a 24-month period after termination to exercise any or all of her vested options to purchase our common stock; and (iii) continued health and dental benefits paid by the Company until the earlier of 6 month after termination or the time that Ms. Gardiner obtains employment with reasonably comparable or better health and dental benefits. Additionally, if Ms. Gardiner's employment is terminated without cause or for good reason with the 12-month period following a change in control (as defined in the employment agreement), then, in addition to the three severance obligations due to Ms. Gardiner as described above, 50% of any then-unvested options previously granted by us to Ms. Gardiner will vest upon the date of such termination, and the period of time for their exercise will be at our discretion.

Senior Vice President and Chief Science Officer. On August 26, 2008, we entered into an employee severance agreement with Dr. Fung. The severance agreement provides certain severance benefits to the employee in the event that we terminate the employee's employment without cause or the employee resigns from his employment for good reason. The severance benefits provided for in the agreements with Dr. Fung include (i) continued payment of the employee's base salary, as then in effect, payable over a period of nine months following the date of termination, (ii) immediate, accelerated vesting of 24 months of any options previously granted by us to the employee and (iii) continuation of health and dental benefits through COBRA premiums paid by us directly to the COBRA administrator for a period of nine months following the date of termination. Each severance agreement also provides that, in the event the employee's employment is terminated by us for reasons other than cause or by the employee for good reason within the 12-month period following a change in control, then, in addition to the severance benefits described above, any then-unvested shares under our stock option plans then held by the employee will fully vest immediately upon the date of such termination. Payment of the severance benefits under these agreements will be conditioned on the employee's continued compliance with the provisions of each employee's proprietary information and inventions agreement and will be delayed as required by Section 409A of the Code.

No severance amounts became due to Dr. Fung, who, as a result of the bankruptcy, resigned from the Company on March 19, 2009. After his resignation, Dr. Fung worked as a consultant for us from September 2009 to January 2010. Based on the consulting agreement between Dr. Fung and us, he was paid \$137.50 per hour for his services as a consultant.

In connection with our emergence from bankruptcy, Dr. Fung was reappointed as our Senior Vice President, Chief Science Officer on February 1, 2010. On September 28, 2010, we entered into an employment agreement with Dr. Fung. Pursuant to the terms of the employment agreement, we will pay Dr. Fung an annual salary of at least \$275,000. He will be eligible for a bonus of up to 50% of his base salary for achievement of reasonable performance-related goals to be defined by our Chief Executive Officer or the Board of Directors. In the event Dr. Fung is terminated without cause or for good reason (as defined in the employment agreement), he is entitled to receive (i) continued payment of base salary for a period of 9 months, (ii) immediate vesting of 24-months of any options previously granted by us in addition to a 24-month period after termination to exercise any or all of his vested options to purchase our common stock; and (iii) continued health and dental benefits paid by us until the earlier of 9 months after termination or the time that Dr. Fung obtains employment with reasonably comparable or better health and dental benefits. Additionally, if Dr. Fung's employment is terminated without cause or for good reason with the 12-month period following a change in control (as defined in the employment agreement), then, in addition to the three severance obligations due to Dr. Fung as described above, 50% of any then-unvested options previously granted us to Dr. Fung will vest upon the date of such termination, and the period of time for their exercise will be at our discretion.

In addition, in recognition of Dr. Fung's efforts and contributions to the success of OVA1, amongst other contributions to us, in March 2010 we awarded to Dr. Fung an option to purchase up to 75,000 shares of our common stock at a predetermined exercise price under the 2010 Plan.

Other Named Executive Officers. Employment of the NEOs other than Ms. Page was for an unspecified duration and constituted “at-will” employment, allowed the NEO by notifying the Company or the Company with or without notice to terminate the NEO’s employment with the Company at any time and for any reason whatsoever. Accordingly, upon a termination, the NEOs other than Ms. Page would receive their accrued salary, earned bonus, unreimbursed expenses and other entitlements to the date of termination, unless the Compensation Committee determined to provide additional severance payments. In addition to their initial base salaries and initial option grant to purchase shares of our common stock, the NEOs were eligible for a bonus as a percentage of their base salary based on the achievement of reasonable performance-related goals as determined by the Board of Directors.

Compensation for the Named Executive Officers in 2010, 2009 and 2008

The compensation earned by the NEOs for the years ended December 31, 2010, 2009 and 2008 was as follows:

Name and Principal Position	Year	Salary	Bonus	Stock Award⁽¹¹⁾	Option Awards⁽¹²⁾	Non-Equity Incentive Plan⁽¹³⁾	Nonqualified Deferred Compensation Earnings	All Other Compensation	Total
Gail S. Page	2010	\$346,699	\$—	\$765,130 ⁽¹⁾	\$195,697	\$179,127	—	\$3,024,231 ⁽²⁾	\$4,510,884
Director, President and Chief Executive Officer	2009	87,323	—	—	211,247	—	—	611,520 ⁽³⁾	910,090
(Principal Executive Officer)	2008	364,550	—	—	207,109	—	—	29,278 ⁽⁴⁾	600,937
Sandra A. Gardiner	2010	150,334	—	—	68,502	66,370	—	—	285,206
Vice President and Chief Financial Officer	2009	—	—	—	—	—	—	—	—
	2008	—	—	—	—	—	—	—	—
Eric T. Fung, M.D., Ph.D.	2010	252,417	—	88,463 ⁽⁵⁾	836,030	129,437	—	11,000 ⁽⁶⁾	1,317,347
Senior Vice President and Chief Science Officer	2009	49,767	—	—	190,194	—	—	79,082 ⁽⁷⁾	319,043
	2008	220,550	—	—	91,165	—	—	1,203 ⁽⁸⁾	312,918
William Creech	2010	146,798	—	—	32,194	49,421	—	6,000 ⁽⁹⁾	234,413
Vice President of Sales and Marketing	2009	—	—	—	—	—	—	—	—
Ashish Kohli, CFA	2010	61,042	—	—	5,879	18,889	—	41,865 ⁽¹⁰⁾	127,675
Vice President of Corporate Strategy	2009	—	—	—	—	—	—	—	—
	2008	—	—	—	—	—	—	—	—
John Tran	2010	98,886	—	—	—	—	—	—	98,886
Interim Vice President of Finance and Chief Accounting Officer	2009	—	—	—	—	—	—	—	—
	2008	—	—	—	—	—	—	—	—

(1) Amount represents restricted stock awards issued to Ms. Page pursuant to the Debtor’s Incentive Plan.

(2) Amount represents Ms. Page’s Debtor Incentive Plan cash distribution of \$3,000,000, consulting income of \$23,660 and Cobra payment of \$571.

(3) Amount represents Ms. Page’s accrued severance of \$365,753, consulting income of \$189,859, health expense reimbursement program of \$562, COBRA payment of \$2,252, car allowance of \$5,557, and PTO payout of \$47,540. Due to the bankruptcy proceeding, Ms. Page was not paid for her service as Chair of the Board of Directors during 2009.

(4) Amount represents Ms. Page’s health expense reimbursement program of \$538 and car allowance of \$28,740.

(5) Amount represents Dr. Fung’s restricted stock awards pursuant to our emergence from bankruptcy.

(6) Amount represents Dr. Fung’s consulting income of \$11,000.

(7) Amount represents Dr. Fung’s consulting income of \$45,038 and PTO payout of \$34,044.

(8) Amount represents amounts paid through our health expense reimbursement program.

(9) Amount represents Mr. Creech’s car allowance of \$6,000.

(10) Amount represents Mr. Kohli’s consulting income of \$41,865.

(11) For awards of stock, the aggregate grant date fair value is computed in accordance with FASB ASC Topic 718 (column (e)).

(12) For awards of option, the aggregate grant date fair value is computed in accordance with FASB ASC Topic 718 (column (f)).

(13) Amount represents annual performance bonus for fiscal year 2010. The performance bonus for the first half of the fiscal year 2010 was paid in fiscal year 2010. The performance bonus for the second half of the fiscal year 2010 was paid in fiscal year 2011.

Grants of Plan-Based Awards

The grants of stock-based awards to NEOs during the year ended December 31, 2010 was as follows:

Name	Grant Date ⁽¹⁾	Estimated Future Payouts Under Non-Equity Incentive Plan Awards			All Other Stock Awards: Number of Shares of Stock or Units (#)	All Other Option Awards: Number of Securities Underlying Options (#)	Exercise or Base Price of Option Awards (\$/Sh) ⁽¹⁾	Grant Date Fair Value of Stock and Option Awards (\$) ⁽²⁾
		Threshold (\$)	Target (\$)	Maximum (\$)				
Gail S. Page	4/22/2010	19,250	192,500	192,500	181,525 ⁽³⁾	—	\$ —	\$3,975,398
Sandra A. Gardiner	5/24/2010	9,600	96,000	96,000	—	40,000	19.95	549,200
Eric T. Fung, M.D., Ph.D.	3/19/2010	13,750	137,500	137,500	—	75,000	28.65	1,491,750
	8/24/2010	—	—	—	20,169 ⁽⁴⁾	—	—	117,585
William Creech	3/19/2010	5,250	52,500	52,500	—	10,000	28.65	198,900
Ashish Kohli, CFA	9/30/2010	7,200	72,000	72,000	—	30,000	5.52	165,600

(1) The exercise price was determined based on the closing price of our common stock on the grant date.

(2) For awards of option, the aggregate grant date fair value is computed in accordance with FASB ASC Topic 718.

(3) Amount represents restricted stock awards issued to Ms. Page pursuant to the Debtor's Incentive Plan.

(4) Amount represents Dr. Fung's restricted stock awards pursuant to our emergence from bankruptcy.

The outstanding equity awards held by the NEOs as of December 31, 2010, were as follows:

Name	Option Awards					Stock Awards			
	Number of Securities Underlying Unexercised Options – Exercisable	Number of Securities Underlying Unexercised Options – Unexercisable	Equity Incentive Plan Awards: Number of Securities Underlying Unearned Options	Option Exercise Price	Option Expiration Date ⁽¹⁾	Number of Shares or Units of Stock that have not Vested	Market Value of Shares or Units of Stock that have not Vested ⁽²⁾	Equity Incentive Plan Awards: Number of Unearned Shares, Units or Other Rights that have not Vested	Equity Incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Other Rights that have not Vested
Gail S. Page	—	—	—	\$ —	—	45,381	\$341,265 ⁽³⁾	—	—
	75,520	49,480	—	2.30	7/17/2018	—	—	—	—
	32,999	3,000	—	14.70	4/25/2017	—	—	—	—
	25,000	—	—	12.00	6/6/2016	—	—	—	—
	39,999	—	—	9.00	12/19/2015	—	—	—	—
	12,500	—	—	21.90	8/4/2015	—	—	—	—
	9,999	—	—	29.60	2/8/2015	—	—	—	—
	24,998	—	—	92.70	1/7/2014	—	—	—	—
Eric T. Fung, M.D., Ph.D.	—	—	—	—	—	5,043	\$ 37,923 ⁽⁴⁾	—	—
	23,438	51,562	—	28.65	3/18/2020	—	—	—	—
	24,166	15,834	—	2.30	7/17/2018	—	—	—	—
	21,999	2,000	—	14.70	4/25/2017	—	—	—	—
	7,500	—	—	12.00	6/6/2016	—	—	—	—
	999	—	—	9.00	12/19/2015	—	—	—	—
	2,000	—	—	21.90	8/4/2015	—	—	—	—
	2,999	—	—	18.00	4/5/2015	—	—	—	—
	999	—	—	37.00	9/15/2014	—	—	—	—
	2,499	—	—	74.70	6/3/2014	—	—	—	—
	1,999	—	—	86.40	4/1/2014	—	—	—	—
	1,000	—	—	96.00	6/5/2013	—	—	—	—
	1,500	—	—	43.50	2/13/2013	—	—	—	—
	500	—	—	45.30	6/6/2012	—	—	—	—
	499	—	—	56.00	11/8/2011	—	—	—	—
	599	—	—	63.80	6/7/2011	—	—	—	—
Sandra A. Gardiner	—	40,000	—	19.95	5/23/2020	—	—	—	—
William Creech	—	10,000	—	28.65	3/18/2020	—	—	—	—
Ashish Kohli, CFA	—	30,000	—	5.52	9/29/2020	—	—	—	—

(1) Stock options vest ratably on a monthly basis either over a 24 month, 48 month or 60 month period, commencing on the date of the grant, or over four years as follows: 25% of the shares vest one year following the vesting commencement date, with the remaining 75% vesting in equal monthly installments over the next three years. Each option expires 10 years after the date of the grant or, in the case of an incentive stock option, such shorter term as may be provided in the applicable agreement.

(2) The fair value of our common stock as of December 31, 2010 was \$7.52 per share.

(3) Amount represents unvested restricted stock awarded to Ms. Page pursuant to the Debtor's Incentive Plan.

(4) Amount represents unvested restricted stock awarded to Dr. Fung pursuant to our emergence from bankruptcy.

Options Exercised and Stock Vested

The stock option exercises and stock vested for the NEOs for the year ended December 31, 2010 was as follows:

<u>Name and Principal Position</u>	<u>Option Awards</u>		<u>Stock Awards</u>	
	<u>Number of Shares acquired on Exercise</u>	<u>Value Realized on Exercise</u>	<u>Number of Shares Acquired on Vesting</u>	<u>Value Realized on Vesting</u>
Gail S. Page	—	\$—	136,144 ⁽¹⁾	\$765,130
Sandra A. Gardiner	—	—	—	—
Eric T. Fung, M.D., Ph.D.	—	—	15,126 ⁽²⁾	88,463
William Creech	—	—	—	—
Ashish Kohli, CFA	—	—	—	—
John Tran	—	—	—	—

(1) Amount represents restricted stock awards issued to Ms. Page pursuant to the Debtor's Incentive Plan.

(2) Amount represents Dr. Fung's restricted stock awards pursuant to our emergence from bankruptcy.

Potential Payments Upon Termination

The amounts payable to each NEO should he or she be terminated, were, as of December 31, 2010, as follows:

<u>Name</u>	<u>Termination Scenario</u>	<u>Continued Payment of Base Salary</u>	<u>Immediate Vesting of Stock Options ⁽³⁾</u>	<u>Health and Dental Insurance Benefits ⁽⁴⁾</u>
Gail S. Page	Termination ⁽¹⁾	\$385,000	\$258,286	\$13,599
	Within 12 Months After Change-in Control ⁽²⁾	385,000	258,286	13,599
	For cause	—	—	—
Sandra A. Gardiner	Termination ⁽¹⁾	120,000	—	11,333
	Within 12 Months After Change-in Control ⁽²⁾	120,000	—	11,333
	For cause	—	—	—
Eric T. Fung, M.D., Ph.D.	Termination ⁽¹⁾	206,250	82,653	—
	Within 12 Months After Change-in Control ⁽²⁾	206,250	82,653	—
	For cause	—	—	—
William Creech	Termination ⁽¹⁾	—	—	—
	Within 12 Months After Change-in Control ⁽²⁾	—	—	—
	For cause	—	—	—
Ashish Kohli, CFA	Termination ⁽¹⁾	—	—	—
	Within 12 Months After Change-in Control ⁽²⁾	—	30,000	—
	For cause	—	—	—

(1) Termination includes the following separation scenarios: resignation, retirement and involuntary termination not for cause (in all cases, assuming the executive is not entering into competitive or other activity detrimental to us).

(2) Termination of employment by us for reasons other than for cause or by NEO for good reason with the 12-month period following a change in control (as defined in the respective employment agreements).

(3) Assumes each NEO exercised all vested, in-the-money options at \$7.52 (the December 31, 2010 closing price of our common stock). These amounts are in addition to the existing value of options vested at December 31, 2010.

(4) Assumes each NEO does not obtain employment with reasonably comparable or better health and dental benefits within the time period specified in the respective employment agreements.

Equity Compensation Plan Table

The following table sets forth, for our equity-based compensation plans, the number of shares of our common stock subject to outstanding options and rights, the weighted-average exercise price of outstanding options, and the number of shares available for future award grants as of December 31, 2010.

Plan Category	Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Shares Reflected in First Column)
Equity compensation plans approved by security holders	849,485 ⁽¹⁾	\$16.13 ⁽²⁾	1,013,983 ⁽³⁾
Equity compensation plans not approved by security holders	—	—	—
Total	849,485	\$16.13	1,013,983

(1) Includes outstanding stock options for 646,485 shares of our common stock under the 2000 Plan and 203,000 shares of our common stock under the 2010 Plan.

(2) Includes the weighted average stock price for outstanding stock options of \$14.62 under the 2000 Plan and \$20.93 for the 2010 Plan.

(3) Includes 1,013,983 shares of our common stock for the 2010 Plan. No future awards shall occur under the 1993 Plan, the 2000 Plan, or the 2000 ESPP.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth certain information known to us regarding beneficial ownership of our common stock as of March 31, 2011, by (1) each person known by us to be the beneficial owner of five percent or more of the outstanding shares of the common stock, (2) each director as of March 31, 2011, (3) each NOE as of December 31, 2010, and (4) all directors and executive officers as of March 31, 2011 as a group. All shares are subject to the named person's sole voting and investment power except where otherwise indicated. Unless otherwise noted below, the address of each beneficial owner listed in the table is c/o Vermillion, Inc., 12117 Bee Caves Road, Building Two, Suite 100, Austin, TX 78738.

Beneficial ownership is determined in accordance with Rule 13d-3(d)(1) under the Exchange Act. Shares of common stock, which are issued and outstanding, are deemed to be beneficially owned by any person who has or shares voting or investment power with respect to such shares. Shares of common stock which are issuable upon exercise of options or warrants are deemed to be issued and outstanding and beneficially owned by any person who has or shares voting or investment power over such shares only if the options or warrants in question are exercisable within 60 days of March 31, 2011, and, in any event, solely for purposes of calculating that person's percentage ownership of the common stock (and not for purposes of calculating the percentage ownership of any other person).

The number of shares of common stock deemed outstanding and used in the denominator for determining percentage ownership for each person equals (i) 14,698,509 shares of common stock outstanding as of March 31, 2011, plus (ii) such number of shares of common stock as are issuable pursuant to restricted stock units, options, warrants or convertible securities held by that person (and excluding restricted stock units, options, warrants and convertible securities held by other persons) which may be exercised within 60 days of March 31, 2011.

Name and Address of Beneficial Owner	Number of Common Stock Shares Beneficially Owned	Percentage of Outstanding Shares Beneficially Owned
Beneficial Owners more than 5%:		
Quest Diagnostics Incorporated ⁽¹⁾ 1290 Wall Street West Lyndhurst, NJ 07071	1,271,071	8.41%
S.A.C. Capital Associates ⁽²⁾ 72 Cummings Point Road Stamford, CT 06902	776,863	5.29%
Pike Capital Management LLC ⁽³⁾⁽⁴⁾ 340 Madison Avenue, 19th Floor New York, NY 10173	781,014	5.31%
James E. Besser ⁽⁵⁾⁽⁶⁾ 131 Charles Street, 1st Floor Boston, MA 02114	982,968	6.69%
Directors and Named Executive Officers:		
James S. Burns ⁽⁷⁾	111,386	*
John F. Hamilton ⁽⁸⁾	100,986	*
Eric T. Fung, M.D., Ph.D. ⁽⁹⁾	117,985	*
Gail S. Page ⁽¹⁰⁾	369,378	2.47%
Peter S. Roddy	15,500	*
William C. Wallen, Ph.D.	22,000	*
Carl Severinghaus	11,500	*
Sandra A. Gardiner	9,999	*
William Creech	4,515	*
Ashish Kohli, CFA	4,500	*
All Directors and Executive Officers as a Group (10 persons)	767,749	5.07%

* Less than 1%.

- (1) Includes 410,476 shares issuable pursuant to warrants exercisable within 60 days of March 31, 2011. Quest Diagnostics Incorporated is a publicly-held company. Quest Diagnostics Incorporated's executive officers are responsible for running the business of the company and thus, exercise voting and investment control over the shares and warrants owned by Quest Diagnostics Incorporated.
- (2) Based on information set forth in the Schedule 13G/A filed by S.A.C. Capital Advisors LP with the SEC on February 14, 2011.
- (3) Based on information set forth in the Schedule 13G/A filed by Pike Capital Partners, LP with the SEC on February 14, 2011.
- (4) Includes shares held by Pike Capital Partners, LP, Pike Capital Partners (QP), LP, Pike Capital Management LLC and Daniel W. Pike. Pike Capital Management LLC is the general partner of each of Pike Capital Partners, LP and Pike Capital Partners (QP), LP. Daniel W. Pike is the managing member of Pike Capital Management LLC. Pike Capital Management LLC and Daniel W. Pike may each be deemed to have voting and dispositive power with respect to the shares of common stock held by Pike Capital Partners, LP and Pike Capital Partners (QP), LP. Also includes 15,000 shares Pike Capital Management purchased after February 14, 2011.
- (5) Based on information set forth in the Schedule 13D filed by Manchester Management Company, LLC with the SEC on April 18, 2011.
- (6) Includes 551,618 shares held by Manchester Management Company, LLC and 431,350 shares held by James E. Besser. James E. Besser is the managing member of Manchester Management Company, LLC. and may be deemed to have voting and dispositive power with respect to the 551,618 shares held by Manchester Management Company, LLC.
- (7) Includes 57,987 shares pursuant to the Debtor's Incentive Plan and 40,400 shares issuable upon exercise of options exercisable within 60 days of March 31, 2011.
- (8) Includes 57,987 shares pursuant to the Debtor's Incentive Plan, and 30,000 shares issuable upon exercise of options exercisable within 60 days of March 31, 2011.
- (9) Includes 108,355 shares issuable upon exercise of options exercisable within 60 days of March 31, 2011, and 1,681 shares of restricted stock that will be vested within 60 days of March 31, 2011.
- (10) Includes 128,961 shares pursuant to the Debtor's Incentive Plan and 237,035 shares issuable upon exercise of options exercisable within 60 days of March 31, 2011.

Transactions with Related Persons

For the years ended December 31, 2010, we did not engage in nor are we currently proposed to engage in any transaction or series of similar transactions to which we were or are to be a party in, which the amount involved exceeds \$120,000 and in which any director, executive officer, holder of more than 5% of our common stock or any member of the immediate family of any of the foregoing persons had or will have a direct or indirect material interest other than (1) compensation agreements and other arrangements, which are described in "Executive Compensation," and (2) the transactions described below.

Relationship with Quest Diagnostics Incorporated

Quest Diagnostics Incorporated ("Quest Diagnostics") is a significant stockholder of Vermillion. On July 22, 2005, we entered into a strategic alliance agreement (the "Strategic Alliance Agreement") with Quest Diagnostics to develop and commercialize up to three diagnostic tests from our product pipeline (the "Strategic Alliance"). The Strategic Alliance Agreement was set to expire on the earlier of (i) the three-year anniversary of the agreement, which was July 22, 2008, and (ii) the date on which Quest Diagnostics commercializes three diagnostic tests. On July 21, 2008, Vermillion and Quest Diagnostics amended the Strategic Alliance Agreement to extend the term of the agreement to end on the earlier of (i) September 1, 2008 and (ii) the date on which Quest Diagnostics commercializes the three diagnostic tests. On October 24, 2008, Vermillion and Quest Diagnostics amended the Strategic Alliance Agreement to extend the term of the agreement to end on the earlier of (i) September 1, 2009 and (ii) the date on which Quest Diagnostics makes its third development election. On October 7, 2009, Vermillion and Quest Diagnostics amended the strategic alliance agreement to extend the term of the agreement to end on the earlier of (i) October 7, 2012 and (ii) the date on which Quest Diagnostics commercializes the three diagnostic tests. To date, Quest Diagnostics has selected only two diagnostic tests, which are the peripheral artery disease ("PAD") blood test ("VASCLIR™") and the OVA1™ ovarian tumor triage test, to commercialize. Pursuant to the Amended Strategic Alliance Agreement, Quest Diagnostics will have the non-exclusive right to commercialize each of these tests on a worldwide basis, with exclusive commercialization rights in each restricted territory, as the term is defined in the Amended Strategic Alliance Agreement, beginning on the date each test is first commercialized and ending on the third anniversary of the date that such test is cleared or approved by the United States Food and Drug Administration ("FDA"). As part of the Strategic Alliance, there is a royalty arrangement under which Quest Diagnostics will pay royalties to us

based on fees earned by Quest Diagnostics for applicable diagnostic services, and we will pay royalties to Quest Diagnostics based on our revenue from applicable diagnostic products. On November 10, 2010, we entered into Amendment No. 4 to the Strategic Alliance Agreement with Quest Diagnostics. Pursuant to this Amendment, Quest Diagnostics will have the exclusive right to commercialize OVA1 for up to three additional years from the period as specified in the Strategic Alliance Agreement. The Amendment also establishes royalties, fees, and other payments related to the performance of OVA1. Quest Diagnostics will pay us a fixed payment of \$50 OVA1 performed, as well as 33% of its “gross margin,” as the term is defined in the Amendment. Quest Diagnostics paid us appropriately \$903,000 related to the 2010 royalties.

Relationship with S.A.C. Capital Associates

On January 7, 2010, we completed a private placement sale of 2,327,869 shares of our common stock at a price of \$18.4932 per share with a group of investors for \$43,049,858.40 in gross proceeds (the “January 7, 2010 Private Placement Sale”). In connection with the January 7, 2010 Private Placement Sale, S.A.C. Capital Associates acquired 952,546 shares of our common stock.

Directors and Executive Officers

We have entered into indemnification agreements with each of our directors and executive officers, which require us to indemnify our directors and officers to the fullest extent permitted by law in the State of Delaware.

Review and Approval of Transactions with Related Persons

Our written corporate governance guidelines require all members of the Board of Directors to inform the Audit Committee of the Board of Directors of all types of transactions between themselves (directly or indirectly) and the Company, prior to their conclusion, even if such transactions are in the ordinary course of business. The Audit Committee reviews and approves all related party transactions for which Audit Committee approval is required by NASDAQ Listing Rules and other applicable laws. The guidelines also provide that the Board of Directors should ensure that there is no abuse of corporate assets or unlawful related party transactions. Our corporate governance guidelines are posted under the Investor Relations section of our website at <http://www.vermillion.com>.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires our executive officers and directors, and persons who own more than 10% of a registered class of our equity securities, to file reports of ownership and changes in ownership with the SEC and with any national securities exchange on which such securities are traded or quoted. Executive officers, directors and such stockholders are required by SEC regulations to furnish us with copies of all Section 16(a) forms they file. As a practical matter, we assist our directors and officers by completing and filing Section 16 reports on their behalf. Based solely on a review of the copies of such reports furnished to us, and the written representations of our directors and executive officers, we believe that our directors and executive officers, and persons who own more than 10% of a registered class of our equity securities, complied with all applicable filing requirements for the year ended December 31, 2010.

PROPOSAL FOUR: RATIFICATION OF THE SELECTION OF OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

The Audit Committee of the Board has selected PricewaterhouseCoopers LLP, an independent registered public accounting firm, to audit our financial statements for the year ending December 31, 2011, and recommends that stockholders vote for ratification of such selection. Notwithstanding this selection, the Audit Committee, in its discretion, may direct the appointment of a new independent registered public accounting firm at any time during the year if the Audit Committee feels that such a change would be in our best interests of our stockholders. In the event of a negative vote on ratification, the Audit Committee may reconsider its selection.

PricewaterhouseCoopers LLP has been engaged as our independent registered public accounting firm since 1994. Representatives of PricewaterhouseCoopers LLP plan to attend the Annual Meeting and will be available to answer appropriate questions from stockholders and, although they do not expect to do so, they will have the opportunity to make a statement if they so desire.

Audit Fees and Non-Audit Fees

The following is a summary of the fees and services provided for fiscal years 2010 and 2009.

	2010	2009
Audit fees ⁽¹⁾	\$1,127,304	\$ —
Audit-related fees	—	—
Tax fees	—	—
All other fees ⁽²⁾	62,619	2,500
Total	\$1,189,923	\$2,500

- (1) The aggregate fees billed for professional services rendered for the integrated audit of our annual financial statements, including the review of the financial statements included in Vermillion's Quarterly Reports on Form 10-Q, for the fiscal year ended December 31, 2010 was \$499,017. This amount also included the testing of our internal control over financial reporting pursuant to Section 404(a) of the Sarbanes-Oxley Act of 2002 for that fiscal year. The aggregate fees billed for professional services rendered for the audits of our annual financial statements for the fiscal years ended December 31, 2009 and 2008, including the reviews of the financial statements included in our Quarterly Reports on Form 10-Q for those fiscal years were \$628,287.
- (2) Fees billed for other services for 2010 totaled \$62,600 for review of our secondary offering filing on Form S-1 and review of our responses to a Comment Letter from the SEC and \$2,500 for 2009 related to the late filing review filed with the SEC in 2009.

Audit Committee Pre-Approval of Policies and Procedures

The Audit Committee is responsible for appointing, compensating and overseeing the work of the independent auditor. The Audit Committee has established a pre-approval procedure for all audit and permissible non-audit services to be performed by PricewaterhouseCoopers LLP. The pre-approval policy requires that requests for services by the independent registered public accounting firm be submitted to our Chief Financial Officer for review and approval. Any requests that are approved by the Chief Financial Officer are then aggregated and submitted to the Audit Committee for approval at a meeting of the Audit Committee. Requests may be made with respect to either specific services or a type of service for predictable or recurring services.

All audit, audit-related, tax and other services, which include all permissible non-audit services, provided to us by PricewaterhouseCoopers LLP were pre-approved by the Audit Committee. Additionally, the Audit Committee concluded that the provision of those services by PricewaterhouseCoopers LLP was compatible with the maintenance of the independent registered public accounting firm's independence.

Required Vote; Recommendation

The affirmative vote of a majority of the shares present at the Annual Meeting either in person or by proxy and entitled to vote is required to ratify the selection of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2011. Broker non-votes will be counted as votes to ratify the selection of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2011.

THE BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT STOCKHOLDERS VOTE FOR THE RATIFICATION OF THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE FISCAL YEAR ENDING DECEMBER 31, 2011.

REPORT OF THE AUDIT COMMITTEE ²

The Audit Committee reviews the Company's financial reporting process on behalf of the Board. Management has the primary responsibility for the financial statements and the reporting process, including the system of internal financial controls. Management has represented to the Audit Committee that the Company's consolidated financial statements for the fiscal year ended December 31, 2010 were prepared in accordance with generally accepted accounting principles, and the Audit Committee has reviewed and discussed the audited financial statements of the Company with management of the Company and PricewaterhouseCoopers LLP, the Company's independent registered public accounting firm. In addition, the Audit Committee has discussed with the independent registered public accounting firm the matters required to be discussed by Statement on Auditing Standards No. 61, as amended (AICPA, *Professional Standards*, Vol. 1. AU section 380), as adopted by the Public Company Accounting Oversight Board ("PCAOB") in Rule 3200T. The Audit Committee has also received from PricewaterhouseCoopers LLP the written disclosures and the letter required by the applicable requirements of the PCAOB regarding PricewaterhouseCoopers LLP's communications with the audit committee concerning independence and has discussed with PricewaterhouseCoopers LLP the firm's independence from the Company and its management. Based on the foregoing, the Audit Committee has recommended to the Board, and the Board has approved, that the audited financial statements be included in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2010 for filing with the SEC. The Audit Committee and the Board also have recommended the selection of PricewaterhouseCoopers LLP as the Company's independent registered public accounting firm for the year ending December 31, 2011.

This report is provided by the following independent directors of the Audit Committee:

Peter Roddy, Chairman
William Wallen, Ph.D.
Carl Severinghaus

Form 10-K

We filed an Annual Report on Form 10-K with the SEC on February 28, 2011. Stockholders may obtain a copy of this report, free of charge, by writing to Vermillion, Inc., Attn: Investor Relations, 12117 Bee Caves Road, Building Two, Suite 100, Austin, Texas 78738. In addition, copies of our annual, quarterly and current reports are available at <http://www.vermillion.com>.

² The material in this report is not "soliciting material," is not deemed "filed" with the SEC and is not to be incorporated by reference into any of our filings under the Securities Act, or the Exchange Act, whether made before or after the date hereof and irrespective of any general incorporation language in any such filing.

OTHER MATTERS

Except as otherwise indicated, information contained herein is given as of March 31, 2011. Our management and our Board know of no matters to come before the Annual Meeting other than the matters referred to in the Notice of Annual Meeting of Stockholders. The persons named in the enclosed proxy will vote the shares represented thereby in accordance with the recommendation of the Board as to any proposal properly presented at the Annual Meeting, or if no recommendation is made by the Board, then pursuant to the authority granted in the proxy.

The matters to be considered at the Annual Meeting are of great importance to our stockholders. Accordingly, you are urged to read and carefully consider the information presented in this proxy statement, and to sign and date the enclosed proxy card and return it today in the enclosed pre-addressed postage-paid envelope.

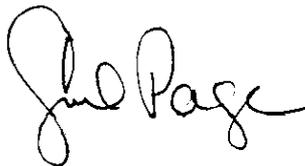
IMPORTANT NOTE

Your vote is important, no matter how many or how few shares you hold. Please sign and date the enclosed proxy card and return it today in the enclosed pre-addressed postage-paid envelope. Please do not complete any subsequently delivered proxy cards unless they are solicited by us. If your shares are held in street name, only your broker or bank can vote your shares and only upon receipt of your specific instructions. Please return the enclosed proxy card to your broker and contact the person responsible for your account to ensure that a proxy card is voted on your behalf.

APPROVAL

The contents of this proxy statement and the sending thereof to the stockholders have been approved and authorized by the Board of Directors of the Company.

BY ORDER OF THE BOARD OF DIRECTORS

A handwritten signature in black ink that reads "Gail S. Page". The signature is written in a cursive, flowing style.

Gail S. Page
Chief Executive Officer

Austin, Texas
April 28, 2011

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

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Fiscal Year Ended December 31, 2010.

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from

to

Commission File Number: 001-34810

Vermillion, Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

33-0595156

(I.R.S. Employer
Identification No.)

12117 Bee Caves Road, Building Two,

Suite 100, Austin, Texas

(Address of principal executive offices)

78738

(Zip Code)

Registrant's telephone number, including area code: (512) 519-0400

Securities registered pursuant to Section 12(b) of the Act:

Title of each class to be so registered

Name of each exchange on which registered

Common Stock, par value \$0.001 per share

The NASDAQ Stock Market, LLC

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K .

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-Accelerated filer

Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Section 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court. Yes No

The aggregate market value of voting common stock held by non-affiliates of the Registrant is \$81,628,592 and is based upon the last sales price as quoted on The NASDAQ Global Market as of June 30, 2010.

As of December 31, 2010, the Registrant had 10,657,564 shares of common stock, par value \$0.001 per share, outstanding.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's proxy statement relating to the registrant's 2011 Annual Meeting of Stockholders to be filed with the Securities and Exchange Commission within 120 days after the end of the fiscal year covered by this Form 10-K, are incorporated by reference into Part III of this Form 10-K where indicated.

VERMILLION, INC.

FORM 10-K

For the Fiscal Year Ended December 31, 2010

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Vermillion, *OVA1* and *OvaCalc* are registered trademarks of Vermillion, Inc. *ProteinChip* is a registered trademark of Bio-Rad Laboratories, Inc. *BioSeptra* is a registered trademark of Pall Corporation.

PART I

FORWARD-LOOKING STATEMENTS

Vermillion, Inc. (“Vermillion”) and its wholly owned subsidiaries (collectively, the “Company”) has made statements in Part I Item 1, “Business”; Part II Item 7, “Management’s Discussion and Analysis of Financial Condition and Results of Operations”; and other sections of this Annual Report on Form 10-K that are deemed forward-looking statements for purposes of the safe harbor provisions under the Private Securities Litigation Reform Act of 1995. We claim the protection of such safe harbor, and disclaim any intent or obligation to update any forward-looking statement. You can identify these statements by forward-looking words such as “may,” “will,” “expect,” “intend,” “anticipate,” “believe,” “estimate,” “plan,” “could,” “should” and “continue” or similar words. These forward-looking statements may also use different phrases. We have based these forward-looking statements on management’s (“we,” “us” or “our”) current expectations and projections about future events. Examples of language found in forward-looking statements include the following:

- projections of our future revenue, results of operations and financial condition;
- anticipated efficacy of our products, product development activities and product innovations;
- competition and consolidation in the markets in which we compete;
- existing and future collaborations and partnerships;
- the utility of biomarker discoveries;
- our belief that biomarker discoveries may have diagnostic and/or therapeutic utility;
- our plans to develop and commercialize diagnostic tests through our strategic alliance with Quest Diagnostics, Incorporated (“Quest Diagnostics”);
- our ability to comply with applicable government regulations;
- our ability to expand and protect our intellectual property portfolio;
- anticipated future losses;
- expected levels of expenditures;
- expected market adoption of our diagnostic tests, including the OVA1[®] ovarian tumor triage test (“OVA1”);
- our ability to obtain reimbursement for our diagnostic tests, including OVA1;
- forgiveness of the outstanding principal amounts of the secured line of credit by Quest Diagnostics;
- accounting treatment of revenue from our agreement with Quest Diagnostics;
- the period of time for which our existing financial resources, debt facilities and interest income will be sufficient to enable us to maintain current and planned operations; and
- market risk of our investments.

Such statements are subject to significant risks and uncertainties, including those identified in Part I Item 1A, “Risk Factors”, that could cause actual results to differ materially from those projected in such forward-looking statements due to various factors, including our ability to generate sales after completing development of diagnostic products; our ability to manage our operating expenses and cash resources consistently with our plans; our ability to secure adequate funds on acceptable terms to execute our business plan; our ability to develop and commercialize diagnostic products using both our internal and external research and development resources; our ability to obtain market acceptance of OVA1 or future diagnostic products, including the risk that our products will not be competitive with products offered by other companies, or that users will not be entitled to receive adequate reimbursement for our products from third party payers such as private insurance companies and government insurance plans; our ability to successfully license or otherwise successfully partner with third parties to commercialize our products; our ability to obtain any regulatory approval for our future diagnostic products; and our ability to protect and promote our proprietary technologies. We believe it is important to communicate our expectations to our investors. However, there may be events in the future that we are not able to accurately predict or that we do not fully control that could cause actual results to differ materially from those expressed or implied in our forward-looking statements.

ITEM 1. BUSINESS

Company Overview

We are dedicated to the discovery, development and commercialization of novel high-value diagnostic tests that help physicians diagnose, treat and improve outcomes for patients. Our tests are intended to help guide decisions regarding patient treatment, which may include decisions to refer patients to specialists, to perform additional testing, or to assist in the selection of therapy. A distinctive feature of our approach is to combine multiple biomarkers into a single, reportable index score that has higher diagnostic accuracy than its constituents. We concentrate our development of novel diagnostic tests in the fields of oncology, hematology, cardiology and women's health, with the initial focus on ovarian cancer. We also intend to address clinical questions related to early disease detection, treatment response, monitoring of disease progression, prognosis and others through collaborations with leading academic and research institutions.

Our lead product, OVA1, was cleared by the United States Food and Drug Administration ("FDA") on September 11, 2009. OVA1 addresses a clear unmet clinical need, namely the pre-surgical identification of women who are at high risk of having a malignant ovarian tumor. Numerous studies have documented the benefit of referral of these women to gynecologic oncologists for their initial surgery. Prior to the clearance of OVA1, no blood test had been cleared by the FDA for physicians to use in the pre-surgical management of ovarian adnexal masses. OVA1 is a qualitative serum test that utilizes five well-established biomarkers and proprietary FDA-cleared software to determine the likelihood of malignancy in women over age 18, with a pelvic mass for whom surgery is planned. OVA1 was developed through large pre-clinical studies in collaboration with numerous academic medical centers encompassing over 2,500 clinical samples. OVA1 was fully validated in a prospective multi-center clinical trial encompassing 27 sites reflective of the diverse nature of the clinical centers at which ovarian adnexal masses are evaluated. The results of the clinical trial demonstrated that among non-gynecologic oncologists, OVA1, in conjunction with clinical evaluation, was able to identify 91.7% of the malignant ovarian tumors and to rule out malignancy negative predictive value ("NPV") with 93.2% certainty. Recently, at the 2010 International Gynecologic Cancer Society Meeting, data were presented demonstrating the high sensitivity of OVA1 for epithelial ovarian cancers; OVA1 detected 95/96 epithelial ovarian cancer cases for a sensitivity of 99.0%, including 40/41 stage I and stage II epithelial ovarian cancers, for an overall sensitivity of 97.6% for early stage epithelial ovarian cancers, as compared to 65.9% for CA125 using the ACOG cutoffs. The improvement in sensitivity was even greater among premenopausal women; for OVA1, sensitivity for early stage epithelial ovarian cancer was 92.9% and for CA125, sensitivity was 35.7%. Overall, OVA1 detected 76% of malignancies missed by CA125, including all advanced stage malignancies. OVA1 is not indicated for use as a screening or stand-alone diagnostic assay.

In addition to OVA1, we have development programs in other clinical aspects of ovarian cancer as well as in peripheral arterial disease. In the field of peripheral arterial disease, we have identified candidate biomarkers that may help to identify individuals at high risk for a decreased ankle-brachial index score, which is indicative of the likely presence of peripheral arterial disease. We have initiated an intended-use study to develop and validate a multi-marker algorithm for the assessment of individuals at risk for peripheral arterial disease. This algorithm will be specifically directed at a primary care population in which the peripheral arterial disease blood test ("VASCLIR™") is expected to be used. Subsequent to this study, we intend to discuss with the FDA the appropriate submission pathway, which may be PMA, 510(k) clearance, or 510(k) de novo clearance. We have also initiated pilot experiments intended to identify markers with high clinical specificity that may complement OVA1. These experiments are early stage and we have yet to establish a regulatory pathway for this potential product ("OVA2™").

Current and former academic and research institutions that we have or have had collaborations with include the Johns Hopkins University School of Medicine ("JHU"); the University of Texas M.D. Anderson Cancer Center ("M.D. Anderson"); University College London ("UCL"); the University of Texas Medical Branch

(“UTMB”); the Katholieke Universiteit Leuven; Clinic of Gynecology and Clinic of Oncology, Rigshospitalet, Copenhagen University Hospital (“Rigshospitalet”); the Ohio State University Research Foundation (“OSU”); Stanford University (“Stanford”); and the University of Kentucky (“UK”).

On July 22, 2005, we entered into a strategic alliance agreement (the “Strategic Alliance Agreement”) with Quest Diagnostics to develop and commercialize up to three diagnostic tests from our product pipeline (the “Strategic Alliance”). The Strategic Alliance Agreement was set to expire on the earlier of (i) the three-year anniversary of the agreement, which was July 22, 2008, and (ii) the date on which Quest Diagnostics commercializes three diagnostic tests. On July 21, 2008, the Strategic Alliance Agreement was amended to extend the term of the agreement to end on the earlier of (i) September 1, 2008 and (ii) the date on which Quest Diagnostics commercializes three diagnostic tests. On October 24, 2008, the Strategic Alliance Agreement was amended to extend the term of the agreement to end on the earlier of (i) September 1, 2009 and (ii) the date on which Quest Diagnostics makes its third development election. On October 7, 2009, the Strategic Alliance Agreement was amended to extend the term of the agreement to end on the earlier of (i) October 7, 2012 and (ii) the date on which Quest Diagnostics has commercially launched three licensed laboratory tests under the Strategic Alliance Agreement. On November 10, 2010, we further amended the Strategic Alliance Agreement (the Strategic Alliance Agreement and the July 21, 2008, October 24, 2008, October 7, 2009 and November 10, 2010 amendments are collectively referred to as the “Amended Strategic Alliance Agreement”) to give Quest Diagnostics the exclusive right to commercialize OVA1 for up to three additional years from the period as specified in the Strategic Alliance Agreement and to establish royalties, fees, and other payments related to the performance of OVA1. To date, Quest Diagnostics has selected two diagnostic tests to commercialize, VASCLIR and OVA1.

We were originally incorporated in California on December 9, 1993, under the name Abiotic Systems. In March 1995, we changed our corporate name to CIPHERGEN Biosystems, Inc. and in May 2000, we reincorporated in Delaware. We had our initial public offering in September 2000. On November 13, 2006, we sold assets and liabilities of our protein research tools and collaborative services business (the “Instrument Business Sale”), to Bio-Rad Laboratories, Inc. (“Bio-Rad”), in order to concentrate our resources on developing clinical protein biomarker diagnostic products and services. On August 21, 2007, we changed our corporate name to Vermillion, Inc. On March 30, 2009, we filed a voluntary petition for relief under Chapter 11 of Title 11 of the United States Code (the “Bankruptcy Code”) in the United States Bankruptcy Court for the District of Delaware (the “Bankruptcy Court”). Subsequently, on January 22, 2010, the confirmation order issued by the Bankruptcy Court approving our Second Amended Plan of Reorganization under Chapter 11 dated January 5, 2010 became final and all conditions precedent to January 22, 2010 were satisfied or waived. Accordingly, we emerged from bankruptcy protection under Chapter 11 on January 22, 2010.

OVA1 was launched on March 9, 2010 by Quest Diagnostics under the terms of the Strategic Alliance Agreement. On March 11, 2010, the Medicare contractor Highmark Medicare Services announced that it would cover OVA1 in its reimbursement program. On September 20, 2010, we announced that OVA1 was CE marked, a requirement for marketing the test in the European Union. OVA1 has satisfied all certification requirements to complete its declaration of conformity.

The Diagnostic Market

The economics of healthcare demand improved allocation of resources which can be derived through disease prevention, early detection of disease leading to early intervention, and diagnostic tools that can triage patients to more appropriate therapy and intervention. According to the May 2009 In Vitro Diagnostics Market Analysis 2009-2024 report, the worldwide market for in vitro diagnostics (“IVDs”) in 2008 was approximately \$40.0 billion. Visiongain predicts that the market will generate nearly \$60.0 billion in 2014.

We have chosen to concentrate primarily in the areas of oncology, hematology, cardiology and women’s health. Demographic trends suggest that, as the population ages, the burden from these diseases will increase and the demand for quality diagnostic, prognostic and predictive tests will increase. In addition, these areas generally

lack quality diagnostic tests and, therefore, we believe patient outcomes can be significantly improved by the development of novel diagnostic tests.

Our focus on translational proteomics enables us to address the market for novel diagnostic tests that simultaneously measure multiple protein biomarkers. A protein biomarker is a protein or protein variant that is present at greater or lesser concentrations in a disease state versus a normal condition. Conventional protein tests measure a single protein biomarker whereas most diseases are complex. We believe that efforts to diagnose cancer and other complex diseases have failed in large part because the disease is heterogeneous at the causative level (i.e., most diseases can be traced to multiple potential etiologies) and at the human response level (i.e., each individual afflicted with a given disease can respond to that ailment in a specific manner).

Consequently, measuring a single protein biomarker when multiple protein biomarkers may be altered in a complex disease is unlikely to provide meaningful information about the disease state. We believe that our approach of monitoring and combining multiple protein biomarkers using a variety of analytical techniques will allow us to create diagnostic tests with sufficient sensitivity and specificity about the disease state to aid the physician considering treatment options for patients with complex diseases.

Ovarian Cancer

Background. Commonly known as the “silent killer”, ovarian cancer leads to approximately 15,000 deaths each year in the United States. Approximately 20,000 new ovarian cancer cases are diagnosed each year, with the majority of the patients in the late stages of the disease in which the cancer has spread beyond the ovary. Unfortunately, ovarian cancer patients in the late stages of the disease have a poor prognosis, which leads to the high mortality rates. According to the American Cancer Society, when ovarian cancer is diagnosed at its earliest stages, the patient has a 5-year survival rate of 93%. Ovarian cancer patients have up to a 90% cure rate following surgery and/or chemotherapy if detected in stage 1. However, only 19% of ovarian cancer patients are diagnosed before the tumor has spread outside the ovary. For ovarian cancer patients diagnosed in the late-stages of the disease, the 5-year survival rate falls to as low as 18%.

While the diagnosis of ovarian cancer in its earliest stages greatly increases the likelihood of survival from the disease, another factor that predicts survival from ovarian cancer is the specialized training of the surgeon who operates on the ovarian cancer patient. Numerous studies have demonstrated that treatment of malignant ovarian tumors by specialists such as gynecologic oncologists or at specialist medical centers improves outcomes for women with these tumors. Published guidelines from the Society of Gynecologic Oncologists (the “SGO”) and the American Congress of Obstetricians and Gynecologists (“ACOG”) recommend referral of women with malignant ovarian tumors to specialists. Unfortunately, today, only about one third of women with these types of tumors are operated on by specialists, in part because of inadequate tests and procedures that can identify such malignancies with high sensitivity. Accordingly, an unmet clinical need is a diagnostic test that can provide adequate predictive value to stratify patients with a pelvic mass into those with a high risk of invasive ovarian cancer versus those with a low risk of ovarian cancer, which is essential for improving overall survival in patients with ovarian cancer.

Although ovarian adnexal tumors are relatively common, malignant tumors are less so. Screening studies have indicated that the prevalence of ovarian adnexal tumors in postmenopausal women can be as high as 5 percent. Ovarian adnexal tumors are thought to be even more common in premenopausal women, but there are more non-persistent, physiologic ovarian tumors in this demographic. Using census estimates of 110 million women over the age of 18 and a 5% prevalence rate, this implies that over five million women are experiencing ovarian adnexal tumors at any given time. Although many of these do not present to the physician or are not concerning enough to warrant surgery, those that do require evaluation of the likelihood of malignancy could potentially benefit from the use of OVA1.

The ACOG and the SGO have issued guidelines to help physicians evaluate ovarian adnexal tumors for malignancy. These guidelines take into account menopausal status, CA125 levels, and physical and imaging

findings. However, these guidelines have notable shortcomings because of their reliance on tools with certain weaknesses. Most notably, the CA125 blood test, which is cleared by the FDA only for monitoring for recurrence of ovarian cancer, is negative in up to 50% of early stage ovarian cancer cases. Moreover, CA125 can be elevated in diseases other than ovarian cancer, including benign ovarian tumors and endometriosis. These shortcomings limit the CA125 blood test's utility in distinguishing benign from malignant ovarian tumors or for use in detection of early stage ovarian cancer. Transvaginal ultrasound is another diagnostic modality used with patients with ovarian tumors. Attempts at defining specific morphological criteria that can aid in a benign versus malignant diagnosis have led to the morphology index and the risk of malignancy index, with reports of 40-70% predictive value. However, ultrasound interpretation can be variable and dependent on the experience of the operator. Accordingly, the ACOG and SGO guidelines perform only modestly in identifying early stage ovarian cancer and malignancy in pre-menopausal women. Efforts to improve detection of cancer by lowering the cutoff for CA125 (the "Modified ACOG/SGO Guidelines") provide only a modest benefit, since CA125 is absent in about 20% of epithelial ovarian cancer cases and is poorly detected in early stage ovarian cancer.

Clinical Development. To address this documented unmet clinical need, we initiated an ovarian cancer biomarker discovery program. In August 2004, we, along with collaborators at JHU, UCL and M.D. Anderson, reported in a *Cancer Research* paper the discovery of three biomarkers that, when combined with CA125, provided higher diagnostic accuracy for early stage ovarian cancer than other biomarkers, including CA125 alone. The three biomarkers that we reported in the August 2004 *Cancer Research* paper formed the basis of an expanded panel of biomarkers that together have demonstrated risk stratification value in a series of studies involving over 2,500 clinical samples from more than five clinical sites. Data presented at the June 2006 Annual Meeting of the American Society of Clinical Oncology demonstrated the portability of this biomarker panel among different clinical groups, indicating its potential validity across various testing populations. Data presented at the March 2007 Annual Meeting of the SGO described results from a cohort study. We were able to demonstrate in 525 consecutively sampled women, a significant increase in the positive predictive value using its biomarker panel over the baseline level. This translates into the potential to enrich the concentration of ovarian cancer cases referred to the gynecologic oncologist by more than twofold.

OVA1™ Ovarian Tumor Triage Test. In January, 2007, we commenced our multi-center prospective clinical trial to demonstrate the clinical performance and utility of OVA1, which was developed based on the studies described above. The clinical study population came from institutions with primary care physicians, gynecologists ("non-GO"), and/or gynecologic oncologists ("GO"). The clinical study subject enrollment centers were representative of institutions where ovarian tumor subjects potentially undergo a gynecologic examination. The specimens were collected at 27 demographically mixed sites that included large and small medical centers (universities/community hospitals), clinics that specialize in women's health, small gynecology/obstetrics groups, gynecology/oncology practices, and HMO groups. The performance of OVA1 was determined based on 516 evaluable subjects who underwent surgery to remove a documented ovarian tumor and for whom a pathology result was available. Physicians were asked, based on the information they had, which included physical, radiologic, and laboratory results, whether they believed the patient had cancer ("Clinical Assessment"). Physicians were not provided with OVA1 score in making this determination. After surgery, the specimen was examined by a surgical pathologist per routine clinical practice. The ability of physicians to predict malignancy without OVA1 was compared to the ability of physicians or OVA1 ("Dual Assessment") to predict malignancy. With Dual Assessment, which included OVA1, 80.0% of cancers missed by clinician impression alone were detected. Dual Assessment, which included OVA1, had greater sensitivity and negative predictive value than Clinical Assessment alone and the metrics of clinical performance were 91.7% and 93.2%, respectively. We obtained FDA clearance of OVA1 on September 11, 2009. OVA1 is the first and only FDA-cleared test to be used in the pre-surgical evaluation of ovarian adnexal tumors.

Results from the clinical trial were presented at the 2010 Annual Meeting of the SGO. A presentation by Fred Ueland, M.D., Associate Professor of Gynecologic Oncology at the University of Kentucky's Markey Cancer Center, demonstrated that the ACOG/SGO guidelines detected only 77% of ovarian malignancies and that the Modified ACOG/SGO Guidelines improved detection to only 80%. Moreover, detection of early stage

ovarian cancer was only 47%. A second presentation demonstrated that among non-gynecologic oncologists, OVA1, in conjunction with clinical impression, improved detection of malignancy to 92% from 72% using clinical impression alone among patients evaluated by non-gynecologic oncologists. Among these patients, detection of stage I ovarian cancer was 79%.

Additional results from the clinical trial were presented at the 2010 International Gynecologic Cancer Society (IGCS) meeting. This presentation reported that OVA1 had overall sensitivity for ovarian cancer of 92.5%, as compared to 68.9% for CA125 using cutoffs established in the ACOG criteria for adnexal mass evaluation and 77.0% for CA125 using cutoffs in the modified ACOG criteria. Additionally, data were presented demonstrating the high sensitivity of OVA1 for epithelial ovarian cancers; OVA1 detected 95/96 epithelial ovarian cancer cases for a sensitivity of 99.0%, including 40/41 stage I and stage II epithelial ovarian cancers, for an overall sensitivity of 97.6% for early stage epithelial ovarian cancers, as compared to 65.9% for CA125 using the ACOG cutoffs. The improvement in sensitivity was even greater among premenopausal women; for OVA1, sensitivity for early stage epithelial ovarian cancer was 92.9% and for CA125, sensitivity was 35.7%. Overall, OVA1 detected 76% of malignancies missed by CA125, including all advanced stage malignancies. OVA1 is not indicated for use as a screening or stand-alone diagnostic assay.

Health economic analysis indicates that anticipated benefits of OVA1 include i) more appropriate referrals of women with high risk of malignancy to a gynecologic oncologist and fewer referrals of women at low risk of malignancy; ii) fewer second surgeries as a result of an initial surgery by a generalist on a woman with a malignant tumor; iii) reduced need for a backup surgeon (i.e. specialist) during a surgery by a generalist; iv) more appropriate and efficient administration of intraperitoneal chemotherapy; v) longer survival, associated with better quality of life. Studies directed at demonstrating these benefits are currently being designed.

Other ovarian cancer indications. We have identified markers that may assist physicians in determining prognosis and/or recurrence. These markers require additional validation, which is planned for the years ending December 31, 2010 and 2011. We have a research and license agreement with JHU to evaluate markers that provide improved specificity in the detection of ovarian cancer. Candidate markers are currently being assessed in small, pilot sample sets. Markers demonstrating high specificity will then be assessed in larger, clinical samples sets. It is anticipated that pilot results of these studies will be reported in early 2011 at a major cancer meeting. Additionally, we have a research and license agreement with Rigshospitalet (Copenhagen). Data have been generated that show that a certain combination of markers can separate ovarian cancer patients into those with good prognosis from those with poor prognosis. These results have been submitted for publication and a patent application has been filed.

Peripheral Arterial Disease

Peripheral arterial disease (“PAD”) represents atherosclerosis of the lower extremities and is generally reflective of systemic atherosclerotic disease and is therefore a risk factor for adverse cardiac events such as myocardial infarction and stroke. This disease affects between 8-12 million Americans, and the number of people diagnosed with PAD is expected to increase concurrently with the rising number of people diagnosed with diabetes. The American Heart Association and the American College of Cardiology have identified three demographics at risk for PAD: smokers 50 years of age or older; diabetics 50 years of age or older; and the elderly 70 years of age or older. Collectively, this represents tens of millions of Americans.

PAD is most commonly diagnosed using the ankle-brachial index (“ABI”), which is performed using a handheld Doppler. Blood pressures are measured in the arm and at the ankles and the ratio (ankle/arm) is calculated. Non-affected individuals should have a ratio of 0.9 or greater, while individuals with a ratio of less than 0.9 are defined as having PAD. Although the ABI has good sensitivity and specificity for PAD, its implementation into routine clinical practice has been hampered by poor physician adoption, generally because of the need to utilize special equipment by a specially trained technician and the need to have the patient lie supine in an examination room for 10 to 30 minutes prior to the administration of this test. Additionally, studies

have shown that the ABI is often performed incorrectly. Therefore, a blood test that can be more routinely implemented would be beneficial in identifying people at increased risk for PAD.

In collaboration with John P. Cooke, M.D., Ph.D., a Professor and Associate Director of the Stanford Cardiovascular Institute at Stanford University School of Medicine, we have performed both an initial discovery study and a first validation study that has resulted in the identification of blood markers that could assist in the diagnosis of PAD. These findings form the basis of a novel blood diagnostic test for PAD.

The results of these studies, including the publication of two blood markers for PAD, were published in the August 2007 on-line issue of the peer-reviewed journal *Circulation*, which is published by the American Heart Association (the “AHA”). Independent validation of these initial findings was subsequently published in the peer-reviewed journal *Vascular Medicine* in 2008. This study, which encompassed 540 individuals, confirmed the elevation of the two biomarkers in subjects with PAD. Moreover, the study showed that a panel of markers improved the identification of subjects with PAD and was complementary to available data, including the AHA risk score. In this study, subjects with a moderate AHA risk score but elevated PAD biomarker score had almost a 7 times increased likelihood of having PAD than if they had a normal PAD biomarker score.

We have initiated an intended-use study to validate a multi-marker algorithm for the assessment of individuals at risk for PAD. This algorithm will be specifically directed at a primary care population in which VASCLIR is expected to be used. We have engaged the Colorado Prevention Center to perform this trial with us. The Colorado Prevention Center is a renowned Academic Research Organization that has a focus in cardiovascular clinical trials and is led by Dr. William Hiatt, who is currently the Novartis Foundation endowed professor for cardiovascular research in the Department of Medicine, University of Colorado Denver School of Medicine with appointments in cardiology and geriatrics and a clinical focus in vascular medicine. Subsequent to this study, we intend to discuss with the FDA the appropriate submission pathway, which may be PMA, 510(k) clearance, or 510(k) de novo clearance. Quest Diagnostics has accepted the PAD test as a development program under the terms of the Amended Strategic Alliance Agreement.

Commercialization

We expect to commercialize and sell diagnostic tests (which may consist of reagents and/or proprietary software) in one or both of two phases. One phase, referred to as the laboratory developed test (“LDT”) phase, will involve the sale of certain reagents (which may be in the form of proprietary software) to certain customers coupled with the grant to such customer of a sublicense to utilize the reagent in a laboratory-developed test using the methodology covered by the relevant license(s) obtained from our collaborators. An LDT would comprise multiple reagents (such as assay test kits, software, or other reagents), some of which would be supplied by us, and would be utilized by clinical laboratories to develop and perform “home brew” laboratory tests in laboratories federally regulated under the Clinical Laboratory Improvement Amendments of 1988 (“CLIA”). In the other phase, referred to as the IVD phase, we plan to sell FDA-cleared devices (which may comprise multiple reagents such as assay test kits, software, or other reagents).

Under the terms of the Amended Strategic Alliance Agreement, Quest Diagnostics has the right to commercialize up to three diagnostic tests from our product pipeline. To date, Quest Diagnostics has selected two tests, VASCLIR and OVA1. Pursuant to the Amended Strategic Alliance Agreement, Quest Diagnostics will have the non-exclusive right to commercialize each of the tests other than OVA1 on a worldwide basis, with exclusive commercialization rights in each exclusive territory, as this term is defined in the Amended Strategic Alliance Agreement, beginning on the date each test is first commercialized and ending on the third anniversary of the date that such test is cleared or approved by the FDA. Quest Diagnostics has the non-exclusive right to commercialize OVA1 on a worldwide basis, with exclusive commercialization rights in each exclusive territory, beginning on the date OVA1 was first commercialized and ending on the fifth anniversary of the date that OVA1 was cleared by the FDA, with the right to extend the exclusivity period for one additional year. These exclusive territories include the United States, India, Mexico, and the United Kingdom.

Customers

In the United States, the IVD market can be segmented into three major groups: clinical reference laboratories, the largest of which are Quest Diagnostics and Laboratory Corporation of America; hospital laboratories; and physician offices. Initially, substantially all of our revenue in the United States will be generated through clinical reference laboratories, and Quest Diagnostics will be the major customer. We will attempt to penetrate hospital laboratories and physician offices, when appropriate. Outside the United States, laboratories may become customers, either directly with us or via distribution relationships established between us and authorized distributors.

Research and Development

Our research and development efforts center on the discovery and validation of biomarkers and combinations of biomarkers that can be developed into diagnostic assays. We do this predominantly through collaborations we have established with academic institutions such as JHU, Rigshospitalet, and Stanford as well as through contract research organizations (“CRO’s”) such as PrecisionMed and the Colorado Prevention Center.

Scientific Background

Genes are the hereditary coding system of living organisms. Genes encode proteins that are responsible for cellular functions. The study of genes and their functions has led to the discovery of new targets for drug development. Industry sources estimate that, within the human genome, there are approximately 30,000 genes. Although the primary structure of a protein is determined by a gene, the active structure of a protein is frequently altered by interactions with additional genes or proteins. These subsequent modifications result in hundreds of thousands of different proteins. In addition, proteins may interact with one another to form complex structures that are ultimately responsible for cellular functions.

Genomics allows researchers to establish the relationship between gene activity and disease. However, many diseases are manifested not at the genetic level, but at the protein level. The complete structure of modified proteins cannot be determined by reference to the encoding gene alone. Thus, while genomics provides some information about diseases, it does not provide a full understanding of disease processes. We are focused on converting recent advances in proteomics into clinically useful diagnostic tests.

Relationship Between Proteins and Diseases

The entire genetic content of any organism, known as its genome, is encoded in strands of deoxyribonucleic acid (“DNA”). Cells perform their normal biological functions through the genetic instructions encoded in their DNA, which results in the production of proteins. The process of producing proteins from DNA is known as gene expression or protein expression. Differences in living organisms result from variability in their genomes, which can affect the types of genes expressed and the levels of gene expression. Each cell of an organism expresses only approximately 10% to 20% of the genome. The type of cell determines which genes are expressed and the amount of a particular protein produced. For example, liver cells produce different proteins from those produced by cells found in the heart, lungs, skin, etc. Proteins play a crucial role in virtually all biological processes, including transportation and storage of energy, immune protection, generation and transmission of nerve impulses and control of growth. Diseases may be caused by a mutation of a gene that alters a protein directly or indirectly, or alters the level of protein expression. These alterations interrupt the normal balance of proteins and create disease symptoms. A protein biomarker is a protein or protein variant that is present in a greater or lesser amount in a disease state versus a normal condition. By studying changes in protein biomarkers, researchers may identify diseases prior to the appearance of physical symptoms. Historically, researchers discovered protein biomarkers as a byproduct of basic biological disease research, which resulted in the validation by researchers of approximately 200 protein biomarkers that are being used in commercially available clinical diagnostic products.

Limitations of Existing Diagnostic Approaches

The IVD industry manufactures and distributes products that are used to detect thousands of individual components present in human derived specimens. However, the vast majority of these assays are used specifically to identify single protein biomarkers. The development of new diagnostic products has been limited by the complexity of disease states, which may be caused or characterized by several or many proteins or post-translationally modified protein variants. Diagnostic assays that are limited to the detection of a single protein often have limitations in clinical specificity (true negatives) and sensitivity (true positives) due to the complex nature of many diseases and the inherent biological diversity among populations of people. Diagnostic products that are limited to the detection of a single protein may lack the ability to detect more complex diseases, and thus produce results that are unacceptable for practical use. The heterogeneity of disease and of the human response to disease often underlies the shortcoming of single biomarkers to diagnose and predict many diseases accurately.

Our Solution

Our studies, particularly in ovarian cancer, have given us a better understanding of both the disease pathophysiology and the host response. By using multiple biomarkers, we are able to better characterize the disease and host response heterogeneity. In addition, by examining specific biomarkers with greater resolution, for example, post-translational modifications, we believe we can improve the specificity of our diagnostic biomarkers because these modifications reflect both the pathophysiology and host response. This is accomplished using novel protein analysis tools coupled with multivariate statistical analysis software to identify combinations of specific biomarkers leading to commercialization of disease-specific assays.

We are applying translational proteomics research, development tools, and methods to analyze biological information in an attempt to discover associations between proteins, protein variants, protein-protein interaction and diseases. We intend to develop new diagnostic tests based on known and newly identified protein markers to help physicians predict an individual's predisposition for a disease in order to better characterize, monitor progression of and select appropriate therapies for such disease. Our goal is to develop novel diagnostic tests that address unmet medical needs, particularly in stratifying patients according to the risk of developing a disease, having a disease or failing a specific therapy for a disease.

Addressing the Heterogeneity of Disease

Our strategy is to create a diagnostics paradigm that is based on risk stratification, multiple-biomarker testing and information integration. This strategy is based on the belief that any specific disease is heterogeneous and, therefore, relying on a single disease biomarker to provide a simple "yes-no" answer is likely to fail. We believe that efforts to diagnose cancer and other complex diseases have failed in large part because the disease is heterogeneous at the causative level, meaning that most diseases can be traced to multiple potential etiologies, and at the human response level, meaning that each individual afflicted with a given disease can respond to that ailment in a specific manner. Consequently, diagnosis, disease monitoring and treatment decisions can be challenging. This heterogeneity of disease and difference in human response to disease and/or treatment underlies the shortcomings of single biomarkers to predict and identify many diseases. A better understanding of heterogeneity of disease and human response is necessary for improved diagnosis and treatment of many diseases.

Validation of Biomarkers Through Proper Study Design

Analysis of peer-reviewed publications reveals almost daily reports of novel biomarkers or biomarker combinations associated with specific diseases. Few of these are used clinically. As with drug discovery, preliminary research results fail to canvass sufficient variation in study populations or laboratory practices and, therefore, the vast majority of candidate biomarkers fail to be substantiated in subsequent studies. Recognizing that validation is the point at which most biomarkers fail, our strategy is to reduce the attrition rate between discovery and clinical implementation by building validation into the discovery process. Biomarkers fail to

validate for a number of reasons, which can be broadly classified into pre-analytical and analytical factors. Pre-analytical factors include study design that does not mimic actual clinical practice, inclusion of the wrong types of control individuals and demographic bias (usually seen in studies in which samples are collected from a single institution). Analytical factors include poor control over laboratory protocols, inadequate randomization of study samples and instrumentation biases (for example, higher signal early in the experimental run compared to later in the experimental run). Finally, the manner in which the data are analyzed can have a profound impact on the reliability of the statistical conclusions.

When designing clinical studies, we begin with the clinical question, since this drives the downstream clinical utility of the biomarkers. With the starting point of building validation into the discovery process, we design our studies to include the appropriate cases and control groups. We further incorporate an initial validation component even within the discovery component. We place an emphasis on multi-institutional studies, inclusion of clinically relevant controls, using qualified and trained operators to run assays and collect data. For example, in an August 2004 cancer research paper, which describes the first three biomarkers in the ovarian cancer panel, there were more than 600 specimen samples taken from five hospitals that were analyzed. In the development of OVA1, we analyzed more than 2,500 samples from five additional medical centers prior to initiating the prospective ovarian clinical study for submission to the FDA. Additionally to date, we have examined over 600 samples in our PAD program. In analyzing the complex proteomics data, we take a skeptical view of statistical methodologies, choosing to use a variety of approaches and looking for concordance between approaches, taking the view that biomarkers deemed significant by multiple statistical algorithms are more likely to reflect biological conditions than mathematical artifacts.

Through biomarker discovery efforts conducted predominantly from 2000 through 2007, we have amassed a portfolio of candidate biomarkers identified in retrospective sample sets. Our research and development efforts are now mostly focused on validating these biomarkers in prospective studies. During the period from 2007 through 2008, we conducted a multi-center prospective clinical trial to determine the clinical performance of OVA1, which was submitted to the FDA on June 19, 2008, and cleared by the FDA on September 11, 2009. We have additional markers for ovarian cancer that we plan to evaluate and validate. Additionally, we have several biomarkers for PAD that we are beginning to assess prospectively in an intended-use study. Results from this study are expected in the second half of 2011.

We are also evaluating in-licensing opportunities for biomarkers in relevant disease areas. This approach requires less infrastructure and internal resources than establishing and maintaining an internal platform-driven biomarker discovery program. Additionally, it allows us to be platform-agnostic and potential biomarkers for in-licensing could be proteins, genes, or other types of analytes.

Our research and development expenses were \$3,848,000 and \$2,346,000 for the years ended December 31, 2010 and 2009, respectively.

Commercial Operations

Upon clearance of OVA1, we initiated efforts directed at building a commercial infrastructure, including the hiring of sales and marketing expertise and contracting with reimbursement specialists. These sales representatives work with colleagues at Quest Diagnostics to identify opportunities for communicating the benefits of OVA1 to general gynecologists and gynecologic oncologists alike. Our success will also depend on our ability to penetrate markets outside of the United States. Towards that end, on September 20, 2010, we announced that OVA1 was CE marked, a requirement for marketing the test in the European Union. OVA1 has satisfied all certification requirements to complete its declaration of conformity.

Reimbursement

In the United States, revenue for diagnostic tests comes from several sources, including third-party payers such as insurance companies and government healthcare programs, such as Medicare and Medicaid. On March 12, 2010, we announced that Highmark Medicare Services, the Medicare contractor that has jurisdiction over claims submitted by Quest Diagnostics for OVA1, will cover OVA1. This local coverage determination from Highmark Medicare Services essentially provides national coverage for patients enrolled in Medicare as well as Medicare Advantage health plans. We have worked together with Quest Diagnostics to obtain coverage and reimbursement from private payers across the country. As of January 1, 2011, twelve independent BlueCross BlueShield plans, representing more than 22 million lives, provide coverage for OVA1. In total, including Medicare and other private payers, approximately 68 million patients have access and coverage for OVA1. The Company and Quest Diagnostics are pursuing coverage from additional payers.

Competition

The diagnostics industry in which we operate is competitive and evolving. There is intense competition among healthcare, biotechnology and diagnostics companies attempting to discover candidates for potential new diagnostic products. These companies may:

- develop new diagnostic products in advance of us or our collaborators;
- develop diagnostic products that are more effective or cost-effective than those developed by us or our collaborators;
- obtain regulatory clearance or approval of their diagnostic products more rapidly than us or our collaborators; or
- obtain patent protection or other intellectual property rights that would limit the ability to develop and commercialize, or a customers' ability to use our or our collaborators' diagnostic products.

We compete with companies in the United States and abroad that are engaged in the development and commercialization of novel biomarkers that may form the basis of novel diagnostic tests. These companies may develop products that are competitive with and/or perform the same or similar to the products offered by us or our collaborators, such as biomarker specific reagents or diagnostic test kits. Also, clinical laboratories may offer testing services that are competitive with the products sold by us or our collaborators. For example, a clinical laboratory can either use reagents purchased from manufacturers other than us or use its own internally developed reagents to make diagnostic tests. If clinical laboratories make tests in this manner for a particular disease, they could offer testing services for that disease as an alternative to products sold by us used to test for the same disease. The testing services offered by clinical laboratories may be easier to develop and market than test kits developed by us or our collaborators because the testing services are not subject to the same clinical validation requirements that are applicable to FDA-cleared or approved diagnostic test kits.

Intellectual Property Protection

Our intellectual property includes a portfolio of owned, co-owned or licensed patents and patent applications. As of December 31, 2010, our patent portfolio included 52 issued United States patents, 93 pending United States patent applications, and numerous pending patent applications and issued patents outside the United States. These patents and patent applications are directed to several areas of technology important to our business, including our Surfaced Enhanced Laser Desorption/Ionization ("SELDI") technology, diagnostic applications, protein biochips, instrumentation, software and biomarkers. The issued patents covering the SELDI and mass spectrometry technologies expire at various times from 2012 to 2025. As part of the Instrument Business Sale, we entered into a cross license agreement with Bio-Rad pursuant to which we retained the right to commercially exploit those proprietary rights, including SELDI technology, in the clinical diagnostics market. The clinical diagnostics market includes laboratories engaged in the research and development and/or manufacture of diagnostic tests using biomarkers, commercial clinical laboratories, hospitals and medical clinics

that perform diagnostic tests. We have been granted exclusive rights to commercialize the proprietary rights in the clinical diagnostics market during a five-year exclusivity period that ends on November 13, 2011. After the end of the five-year period, we will share exclusive rights with Bio-Rad. The Company and Bio-Rad each have the right to engage in negotiations with the other party for a license to any improvements in the proprietary rights created by the other party.

We own, license or hold options to license the patents related to biomarkers developed using SELDI technology. As of December 31, 2010, we were maintaining and/or had license to 31 diagnostic patent application families. These include applications in the areas of cancer, cardiovascular disease, infectious disease, neurodegenerative disease and women’s health. On March 31, 2009, we were issued patent number 7,510,842, “Biomarker for ovarian and endometrial cancer: hepcidin”. On October 20, 2009, we were issued patent number 7,605,003, “Use of biomarkers for detecting ovarian cancer”. On June 29, 2010, we announced that the USPTO has issued a notice of allowance to us of a patent entitled “Biomarkers for Alzheimer’s disease”. On January 11, 2011, we were issued patent number 7,867,719 entitled “Beta-2 microglobulin as a biomarker for peripheral artery disease”. The patent claims are directed to Beta-2 microglobulin and biomarker combinations that include Beta-2 microglobulin for the diagnosis and management of peripheral artery disease and to the measurement of the biomarkers by a variety of methods, including mass spectrometry and immunoassay. On February 2, 2011, we announced that the USPTO had issued a notice of allowance to us of a patent entitled “Biomarkers for breast cancer.”

Outstanding material patents for OVA1 are described in the table below:

<u>Territory</u>	<u>General Subject Matter</u>	<u>Expiration Date</u>
United States	Use of biomarkers for detecting ovarian cancer	8/7/2025

Under the terms of a research collaboration agreement with the Johns Hopkins University School of Medicine, we were required to pay JHU \$600,000, \$618,000 and \$637,000 for the years ending December 31, 2008, 2009 and 2010, respectively. In June 2010, the research collaboration agreement was amended by extending the term and reducing the payments to \$300,000 for 2010, \$400,000 for 2011, \$400,000 for 2012 and \$100,000 for 2013. In conjunction with the amendment, JHU forgave the previously outstanding amounts we owed of \$623,000, which we recognize as a reduction to research and development expenses straight line over the term of the amended agreement. Collaboration costs under the JHU collaboration were \$400,000 and \$616,000 for the years ended December 31, 2010 and 2009, respectively. Collaboration costs under the JHU collaboration are included in research and development expenses. In addition, under the terms of the amended research collaboration agreement, we are required to pay the greater of 4% royalties on net sales of diagnostic tests using the assigned patents or annual minimum royalties of \$50,000. Other institutions and companies from which we hold options to license intellectual property related to biomarkers or are a co-inventor on applications include UCL, M.D. Anderson, UK, OSU, McGill University (Canada), Eastern Virginia Medical School, Aaron Diamond AIDS Research Center, UTMB, Goteborg University (Sweden), University of Kuopio (Finland), The Katholieke Universiteit Leuven (Belgium) and Rigshospitalet.

In connection with the Instrument Business Sale, we sublicensed to Bio-Rad certain rights to the core SELDI technology for use outside of the clinical diagnostics field. We retained exclusive rights to the license rights for use in the field of clinical diagnostics for a five-year period, after which the license will be co-exclusive in this field. The rights to the SELDI technology are derived through royalty-bearing sublicenses from Molecular Analytical Systems, Inc. (“MAS”). MAS holds an exclusive license to patents directed to the SELDI technology from the owner, Baylor College of Medicine. MAS granted certain rights under these patents to its wholly owned subsidiaries, IllumeSys Pacific, Inc. and CIPHERGEN Technologies, Inc. in 1997. We obtained further rights under the patents in 2003 through sublicenses and assignments executed as part of the settlement of a lawsuit between us, MAS, LumiCyte and T. William Hutchens. Together, the sublicenses and assignments provide all rights to develop, make and have made, use, sell, import, market and otherwise exploit products and services covered by

the patents throughout the world in all fields and applications, both commercial and non-commercial. The sublicenses carry the obligation to pay MAS a royalty equal to 2% of revenues recognized between February 21, 2003, and the earlier of (i) February 21, 2013, or (ii) the date on which the cumulative payments to MAS have reached \$10,000,000 (collectively, the "Sublicenses"). Under our sublicense with Bio-Rad, Bio-Rad agreed to pay the royalties directly to MAS under the license rights.

On July 10, 2007, we entered into a license and settlement agreement with Health Discovery Corporation ("HDC") pursuant to which we licensed more than 25 patents covering HDC's support vector machine technology for use with SELDI technology. Under the terms of the HDC Agreement, we receive a worldwide, royalty-free, non-exclusive license for life sciences and diagnostic applications of the technology and have access to any future patents resulting from the underlying intellectual property in conjunction with use of SELDI systems. Pursuant to the HDC Agreement, we paid \$200,000 to HDC upon entry into the agreement on July 13, 2007, \$100,000 three months following the date of the agreement on October 9, 2007, and \$150,000 twelve months following the date of the agreement on July 9, 2008. The remaining \$150,000 payable under the HDC Agreement, which was due twenty-four months following the date of the agreement and payable as of December 31, 2008, was subsequently paid on January 22, 2010. The HDC Agreement settled all disputes between the Company and HDC.

Manufacturing

We are the manufacturer of OVA1. Components of OVA1 include reagents for each of the component assays as well as the OvaCalc[®] software. Because we do not directly manufacture the component assays, we are required to maintain supply agreements with manufacturers of each of the assays. As part of our Quality Systems, reagent lots for these assays are tested to ensure they meet specifications required for inclusion in OVA1. Only reagent lots determined by us as having met these specifications are permitted for use in OVA1.

Environmental Matters

Medical Waste

We have been subject to licensing and regulation under federal, state and local laws relating to the handling and disposal of medical specimens and hazardous waste as well as to the safety and health of laboratory employees. We formerly operated laboratories located in each of our former facilities in Fremont, California, the last lease for which expired on August 31, 2010. Our laboratories were operated in material compliance with applicable federal and state laws and regulations relating to disposal of all laboratory specimens. We utilized outside vendors for disposal of specimens. We cannot eliminate the risk of accidental contamination or discharge and any resultant injury from these materials. Federal, state and local laws and regulations govern the use, manufacture, storage, handling and disposal of these materials. We could be subject to damages in the event of an improper or unauthorized release of, or exposure of individuals to, hazardous materials. In addition, claimants may sue us for injury or contamination that results from our use, or the use by third parties, of these materials, and our liability may exceed our total assets. Compliance with environmental laws and regulations is expensive, and current or future environmental regulations may impair our research, development or production efforts.

Occupational Safety

In addition to its comprehensive regulation of safety in the workplace, the Federal Occupational Safety and Health Administration has established extensive requirements relating to workplace safety for healthcare employers whose workers may be exposed to blood-borne pathogens such as HIV and the hepatitis virus. These regulations, among other things, require work practice controls, protective clothing and equipment, training, medical follow-up, vaccinations and other measures designed to minimize exposure to chemicals and transmission of the blood-borne and airborne pathogens. Although we believe that we are currently in compliance in all material respects with such federal, state and local laws, failure to comply could subject us to denial of the right to conduct business, fines, criminal penalties and other enforcement actions.

Specimen Transportation

Regulations of the Department of Transportation, the International Air Transportation Agency, the Public Health Service and the Postal Service apply to the surface and air transportation of clinical laboratory specimens.

Government Regulation

General. Our activities related to diagnostic products are, or have the potential to be, subject to regulatory oversight by the FDA under provisions of the Federal Food, Drug and Cosmetic Act and regulations thereunder, including regulations governing the development, marketing, labeling, promotion, manufacturing and export of our products. The Food, Drug and Cosmetic Act requires that medical devices introduced to the United States market, unless exempted by regulation, be the subject of either a pre-market notification clearance, known as a 510(k) clearance or 510(k) de novo clearance, or a PMA. OVA1 was cleared by the FDA on September 11, 2009 under the 510(k) de novo guidelines. OVA1 was the first and is currently the only FDA-cleared blood test for the pre-operative assessment of ovarian tumors. We have not yet established a regulatory pathway for our future potential products such as VASCLIR and OVA2. Clinical studies to support either a 510(k) submission or a PMA application would need to be conducted in accordance with FDA requirements. If the FDA indicates that a PMA is required for any of our potential future clinical products, the application will require extensive clinical studies, manufacturing information and likely review by a panel of experts outside the FDA. Additionally, the FDA will generally conduct a pre-approval inspection for PMA devices.

Even in the case of devices like analyte specific reagents (“ASRs”), which may be exempt from 510(k) clearance or PMA approval requirements, the FDA may impose restrictions on marketing. Our potential future ASR products may be sold only to clinical laboratories certified under the CLIA to perform high complexity testing. In addition to requiring approval or clearance for new products, the FDA may require approval or clearance prior to marketing products that are modifications of existing products or the intended uses of these products. Additionally, the FDA will generally conduct a pre-approval inspection for PMA devices. Our suppliers’ manufacturing facilities are, and, if and when we begin commercializing and manufacturing our products ourselves, our manufacturing facilities will be, subject to periodic and unannounced inspections by the FDA and state agencies for compliance with Quality System Regulations (“QSRs”). Additionally, the FDA will generally conduct a pre-approval inspection for PMA devices. Although we believe that we and our suppliers will be able to operate in compliance with the FDA’s QSRs for ASRs, we cannot assure that we or our suppliers will be in or be able to maintain compliance in the future. We have never been subject to an FDA inspection and cannot assure that we will pass an inspection, if and when it occurs. If the FDA believes that we or our suppliers are not in compliance with applicable laws or regulations, the FDA can issue a Form 483 List of Observations, warning letter, detain or seize our products, issue a recall notice, enjoin future violations and assess civil and criminal penalties against us. In addition, approvals or clearances could be withdrawn under certain circumstances.

Any customers using our products for clinical use in the United States may be regulated under CLIA, which is intended to ensure the quality and reliability of clinical laboratories in the United States by mandating specific standards in the areas of personnel qualifications, administration, participation in proficiency testing, patient test management, quality control, quality assurance and inspections. The regulations promulgated under CLIA establish three levels of diagnostic tests - namely, waived, moderately complex and highly complex - and the standards applicable to a clinical laboratory depend on the level of the tests it performs. Medical device laws and regulations are also in effect in many of the countries in which we may do business outside the United States. These range from comprehensive device approval requirements for some or all of our potential future medical device products, to requests for product data or certifications. The number and scope of these requirements are increasing. In addition, products which have not yet been cleared or approved for domestic commercial distribution may be subject to the FDA Export Reform and Enhancement Act of 1996 (“FDERA”).

FDA Regulation of Cleared Tests. Once granted, a 510(k) clearance or PMA approval may place substantial restrictions on how our device is marketed or to whom it may be sold. All devices cleared by the FDA

are subject to continuing regulation by the FDA and certain state agencies. As a medical device manufacturer, we are also required to register and list our products with the FDA. We are required to set forth and adhere to a Quality Policy and other regulations. In addition, we are required to comply with the FDA's QSRs, which require that our devices be manufactured and records be maintained in a prescribed manner with respect to manufacturing, testing and control activities. Additionally, we may be subject to inspection by federal and state regulatory agencies. Non-compliance with these standards can result in, among other things, fines, injunctions, civil penalties, recalls, total or partial suspension of production. Further, we are required to comply with FDA requirements for labeling and promotion. For example, the FDA prohibits cleared or approved devices from being promoted for uncleared or unapproved uses. Labeling and promotional activities are subject to scrutiny by the FDA, which prohibits the marketing of medical devices for unapproved uses. Additionally, the FDA may require us to perform certain post-marketing studies ("Post-market Surveillance") to verify or validate the clinical performance of FDA-cleared tests.

In addition, the medical device reporting regulation requires that we provide information to the FDA whenever evidence reasonably suggests that one of our devices may have caused or contributed to a death or serious injury, or where a malfunction has occurred that would be likely to cause or contribute to a death or serious injury if the malfunction were to recur.

Foreign Government Regulation of Our Products. We intend to obtain regulatory approval in other countries to market our tests. Each country maintains its own regulatory review process, tariff regulations, duties and tax requirements, product standards, and labeling requirements. We have retained the services of the Emergo Group and TUV SUD America Inc. to assist in our efforts to satisfy the regulatory requirements necessary for commercialization in Europe.

Employees

As of March 31, 2009, in connection with our voluntary petition for relief (the "Bankruptcy Filing") under the Bankruptcy Code with the Bankruptcy Court and in an effort to conserve cash, we reduced our staff to three full-time employees, including two employees in research and development and one employee in general and administrative. As of December 31, 2009, we had two full-time employees, including one employee in research and development and one employee in general and administrative. Additionally, we had engaged as independent contractors several former employees and executive management members.

On September 11, 2009, we received clearance of our OVA1 510(k) Pre-Market Application Notification from the FDA. On November 24, 2009, we filed our Plan of Reorganization and Disclosure Statement with the Bankruptcy Court, which was amended on December 3, 2009. The Second Amended Plan of Reorganization was approved by our unsecured creditors on January 6, 2010, and by the Bankruptcy Court on January 7, 2010. We emerged from bankruptcy under the Bankruptcy Code on January 22, 2010. As part of the Second Amended Plan of Reorganization, we completed a private placement sale of 2,327,869 shares of our common stock to a group of investors for gross proceeds of \$43,050,000. In connection with these events, we increased our staff to 26 full-time employees worldwide as of December 31, 2010. We also engage independent contractors from time to time. Our success will depend in large part on our ability to attract and retain skilled and experienced employees.

Code of Ethics for Executive Officers

We have adopted a Code of Ethics for Executive Officers. We publicize the Code of Ethics for Executive Officers by posting the policy on our website, www.vermillion.com. We will disclose on our website any waivers of, or amendments to, our Code of Ethics.

Information About Us

We file annual reports, quarterly reports, special reports, proxy and information statements, and other information with the Securities and Exchange Commission (the "SEC"). You may read and copy any material we file with the SEC at the SEC's Public Reference Room located at the following address:

100 F Street, NE
Washington, DC 20549

You may obtain information on the operation of the SEC's Public Reference Room by calling the SEC at 1-800-SEC-0330. The SEC also maintains an Internet website, www.sec.gov, that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC.

In addition, we make available free of charge under the Investors Relation section of our website, www.vermillion.com, the Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended ("Exchange Act") as soon as reasonably practicable after we have electronically filed such material with or furnished it to the SEC. The information contained on our website is not incorporated by reference in this Annual Report on Form 10-K and should not be considered a part of this Annual Report on Form 10-K. You may also obtain these documents free of charge by submitting a written request for a paper copy to the following address:

Investor Relations
Vermillion, Inc.
12117 Bee Caves Road, Building Two, Suite 100
Austin, TX 78738

ITEM 1A. RISK FACTORS

You should carefully consider the following risk factors and uncertainties together with all of the other information contained in this Annual Report on Form 10-K, including our audited consolidated financial statements and the accompanying notes in Part II Item 8, "Financial Statements and Supplementary Data." The risks and uncertainties management describes below are the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also adversely affect our business.

Risks Related to Our Business

We expect to incur a net loss for fiscal 2011. If we are unable to generate significant product and licensing revenue in the future, we may never achieve profitability.

We have experienced significant operating losses each year since our inception and we expect to incur a net loss for fiscal year 2011. Our losses have resulted principally from costs incurred in research and development, sales and marketing, litigation, and general and administrative costs associated with our operations, bankruptcy under Chapter 11 and test development.

Our ability to commercialize OVA1 and other potential diagnostic tests is heavily dependent on our strategic alliance with Quest Diagnostics.

Quest Diagnostics has an exclusive license to offer OVA1 as a clinical laboratory test in the US, Mexico, Britain and India through September 11, 2014, which may be extended for an additional year beyond September 11, 2014. In addition, Quest Diagnostics is expected to have a similar exclusive license with respect to our VASCLIR test for a three year period following clearance by the FDA, as well as with respect to one additional test developed by us, if and to the extent, Quest Diagnostics exercises its development option with respect to any such test on or before October 7, 2012. Consequently, our ability to generate revenue from these tests in these regions is heavily dependent on Quest Diagnostics and its ability to market and offer these tests in its clinical laboratories.

We expect that for the foreseeable future nearly all of our revenue will be derived from Quest Diagnostics and will depend on the number of OVA1 tests performed by Quest Diagnostics and the reimbursement rate for performing those tests, which are outside of our control.

We expect that nearly all of our revenues for the foreseeable future will be derived through our strategic partnership with Quest Diagnostics and will be based on the number of OVA1 tests performed by Quest Diagnostics and the reimbursement rate received by Quest Diagnostics for those tests. On November 10, 2010, we entered into an Amendment No. 4 to our Strategic Alliance Agreement with Quest Diagnostics (the "Amendment No. 4"). Under the terms of the Amendment, we are to be paid \$50 for each OVA1 performed by Quest Diagnostics, as well as a 33% royalty of Quest Diagnostics' gross margin from performing OVA1. Amendment No. 4 provides for a monthly payment by Quest Diagnostics to us based on Quest Diagnostics' average reimbursement per OVA1 in the previous month. Under the terms of Amendment No. 4, royalty portion of our revenue is subject to adjustment, either up or down, on an annual basis within 60 days of end of each calendar year based on Quest Diagnostics' actual reimbursement history for that calendar year. To the extent Quest Diagnostics is not reimbursed, is reimbursed at a lower than expected rate, or has reimbursement claims rejected, the royalty amounts owed to us would be reduced. Any amounts owed by us to Quest Diagnostics will be deducted against payments owed to us in future periods. The number of tests performed by Quest Diagnostics and the amount of reimbursements received by Quest Diagnostics in any given period will be largely outside of our control. If Quest Diagnostics were to perform fewer tests or receive less reimbursement per test than expected, it could have a material adverse effect on our revenue and results of operations.

How we will recognize future revenue under the Quest Diagnostics Strategic Alliance Agreement remains uncertain and is likely to change, which could affect our revenue in future periods.

As described in detail above, Amendment No. 4 changed the structure and calculation of the payment to be received by us from Quest Diagnostics relating to OVA1. Given our limited commercialization history with OVA1, our lack of experience with the new payment terms contained in Amendment No. 4 and our inability to know or control Quest Diagnostics' reimbursement rates for OVA1, it may be difficult for us to estimate the amount of the future royalties and the size of any year-end adjustment. It is likely that we will be unable to recognize some or all of the revenue from the royalty payments to be received from Quest Diagnostics until we are better able to estimate the final royalty payment amounts and the magnitude and effect of the annual recalculation and adjustment mechanism. Accordingly, the amount of revenue we will be able to recognize in any quarter could vary significantly, and the method used to calculate that revenue could be subject to change.

Failures to reimburse OVA1 or changes in reimbursement rates by third party payers and variances in reimbursement rates could materially and adversely affect our revenues and could result in significant fluctuations in our revenues.

A significant portion of our revenues are dependent on the amount Quest Diagnostics receives from third party payers for performing OVA1. Insurance coverage and reimbursement rates for diagnostic tests are uncertain, subject to change and particularly volatile during the early stages of a newly commercialized diagnostic test. OVA1 was commercially launched in March of 2010. There remain questions as to what extent third party payers, like Medicare, Medicaid and private insurance companies will provide coverage for OVA1 and for which indications. Quest Diagnostics will likely experience volatility in the coverage and reimbursement of OVA1 due to contract negotiation with third party payers and implementation requirements. Quest Diagnostics has advised us that the reimbursement amounts it has received from third party payers varies from payer to payer, and, in some cases, the variation is material. Third party payers, including private insurance companies as well as government payers such as Medicare and Medicaid, have increased their efforts to control the cost, utilization and delivery of healthcare services. These measures have resulted in reduced payment rates and decreased utilization for the diagnostic test industry. From time to time, Congress has considered and implemented changes to the Medicare fee schedules in conjunction with budgetary legislation, and pricing for tests covered by Medicare is subject to change at any time. Reductions in the reimbursement rate of payers may occur in the future. Reductions in the price at which OVA1 is reimbursed could have a material adverse effect on our

revenues. If we and Quest Diagnostics working collaboratively are unable to establish and maintain broad coverage and reimbursement for OVA1 or if third party payers change their coverage or reimbursement policies with respect to OVA1, our revenues could be materially and adversely affected.

We may need to raise additional capital in the future beyond what we have raised in a follow-on public offering on February 18, 2011, and if we are unable to secure adequate funds on terms acceptable to us, we may be unable to execute our business plan.

On February 18, 2011, we completed a follow-on public offering of our common stock in which we issued an additional 4 million shares and raised \$20.2 million in net proceeds. We believe that our current cash resources will be sufficient to meet our anticipated needs for at least the next twelve months. However, we may need to raise additional capital beyond what we have raised in the follow-on public offering in order to develop new or enhanced products or services, increase our efforts to discover biomarkers and develop them into diagnostic products, or acquire complementary products, businesses or technologies. We may seek to raise additional capital beyond what we have raised in the follow-on offering through the issuance of equity or debt securities, or a combination thereof, in the public or private markets, or through a collaborative arrangement or sale of assets. Additional financing opportunities may not be available to us, or if available, may not be on favorable terms. The availability of financing opportunities will depend, in part, on market conditions, and the outlook for our business. Any future issuance of equity securities or securities convertible into equity could result in substantial dilution to our stockholders, and the securities issued in such a financing may have rights, preferences or privileges senior to those of our common stock. If we raise additional funds by issuing debt, we may be subject to limitations on our operations, through debt covenants or other restrictions. If we obtain additional funds through arrangements with collaborators or strategic partners, we may be required to relinquish rights to certain technologies or products that we might otherwise seek to retain. If adequate and acceptable financing is not available to us at the time that we seek to raise additional capital, our ability to execute our business plan successfully may be negatively impacted.

Leverage and debt service obligations may adversely affect our consolidated cash flows.

As of December 31, 2010, we had \$5,000,000 of outstanding principal of our 7.00% Convertible Senior Notes due 2011 (the "7.00% Notes") and \$7,000,000 outstanding under our secured line of credit with Quest Diagnostics.

Quest Diagnostics provided us with a \$10,000,000 secured line of credit, which was forgivable based upon the achievement of certain milestones related to the development, regulatory approval and commercialization of certain diagnostic tests. As of our emergence from bankruptcy under the Bankruptcy Code, certain milestones had been met and the principal balance of the secured line of credit was reduced to \$7,000,000. We are in discussions with Quest Diagnostics regarding the achievement of an additional \$1,000,000 forgiveness milestone related to OVA1 under the terms of the Amended Strategic Alliance Agreement. The \$7,000,000 secured line of credit is secured by our assets, and is senior to the outstanding \$5,000,000 of the 7.00% Notes. As a result of this indebtedness, we have principal and interest payment obligations to Quest Diagnostics. The degree to which we are leveraged could, among other things:

- make it difficult for us to obtain financing for working capital, acquisitions or other purposes on favorable terms, if at all;
- make us more vulnerable to industry downturns and competitive pressures; and
- limit our flexibility in planning for or reacting to changes in our business.

Our ability to meet our debt service obligations will depend upon our future performance, which will be subject to financial, business and other factors affecting our operations, many of which are beyond our control. If we cannot meet our debt service obligation, it would have a material adverse effect on our consolidated financial position.

We may not succeed in developing additional diagnostic products, and, even if we do succeed in developing additional diagnostic products, the diagnostic products may never achieve significant commercial market acceptance.

Our success depends on our ability to continue to develop and commercialize diagnostic products. There is considerable risk in developing diagnostic products based on our biomarker discovery efforts, as candidate biomarkers may fail to validate results in larger clinical studies or may not achieve acceptable levels of clinical accuracy. If we do succeed in developing additional diagnostic tests with acceptable performance characteristics, we may not succeed in achieving significant commercial market acceptance for those tests. Our ability to successfully commercialize diagnostic products, including OVA1, will depend on several factors, including:

- our ability to convince the medical community of the safety and clinical efficacy of our products and their advantages over existing diagnostic products;
- our ability to further establish business relationships with other diagnostic or laboratory companies that can assist in the commercialization of these products in the US and globally; and
- the scope and extent of the agreement by Medicare and third-party payers to provide full or partial reimbursement coverage for our products, which will affect patients' willingness to pay for our products and will likely heavily influence physicians' decisions to recommend or use our products.

These factors present obstacles to significant commercial acceptance of our existing and potential diagnostic products, for which we will have to spend substantial time and financial resources to overcome, and there is no guarantee that we will be successful in doing so. Our inability to do so successfully would prevent us from generating revenue from future diagnostic products.

The diagnostics market is competitive and we may not be able to compete successfully, which would adversely impact our ability to generate revenue.

Our principal competition currently comes from the many clinical options available to medical personnel involved in clinical decision making. For example, rather than ordering an OVA1 for a woman with an adnexal mass, obstetricians, gynecologists, and gynecologic oncologists may choose a different clinical option or none at all. If we are not able to convince clinicians that OVA1 provides significant improvement over current clinical practices, our ability to commercialize OVA1 would be adversely affected. In addition, competitors, such as Fujirebio Diagnostics, Inc., Becton Dickinson, ArrayIt Corporation, Correlologic Systems, Inc., and Abbott Labs have publicly disclosed that they have been or are currently working on ovarian cancer diagnostic assays. Additionally, academic institutions periodically report new findings in ovarian cancer diagnostics that may have commercial value. Our failure to compete with any competitive diagnostic assay if and when commercialized could adversely affect our business.

We have priced OVA1 at a point that recognizes the value-added by its increased sensitivity for ovarian malignancy. If others develop a test that is viewed to be similar to OVA1 in efficacy but is priced at a lower point, we and/or our strategic partners may have to lower the price of OVA1 in order to effectively compete, which would impact our margins and potential for profitability.

The commercialization of our diagnostic tests may be affected adversely by changing FDA regulations, and any delay by or failure of the FDA to approve our diagnostic tests submitted to the FDA may adversely affect our consolidated revenues, results of operations and financial condition.

The FDA cleared OVA1 on September 11, 2009. Our activities related to diagnostic products are, or have the potential to be, subject to regulatory oversight by the FDA under provisions of the Federal Food, Drug and Cosmetic Act and regulations thereunder, including regulations governing the development, marketing, labeling, promotion, manufacturing and export of our products. Failure to comply with applicable requirements can lead to sanctions, including withdrawal of products from the market, recalls, refusal to authorize government contracts, product seizures, civil money penalties, injunctions and criminal prosecution.

The Food, Drug and Cosmetic Act requires that medical devices introduced to the United States market, unless exempted by regulation, be the subject of either a pre-market notification clearance, known as a 510(k) clearance or 510(k) de novo clearance, or a PMA. Some of our potential future clinical products may require a 510(k) or 510(k) de novo clearance, while others may require a PMA. With respect to devices reviewed through the 510(k) process, we may not market a device until an order is issued by the FDA finding our product to be substantially equivalent to a legally marketed device known as a predicate device. A 510(k) submission may involve the presentation of a substantial volume of data, including clinical data. The FDA may agree that the product is substantially equivalent to a predicate device and allow the product to be marketed in the United States. On the other hand, the FDA may determine that the device is not substantially equivalent and require a PMA, or require further information, such as additional test data, including data from clinical studies, before it is able to make a determination regarding substantial equivalence. By requesting additional information, the FDA can delay market introduction of our products. Delays in receipt of or failure to receive any necessary 510(k) clearance or PMA approval, or the imposition of stringent restrictions on the labeling and sales of our products, could have a material adverse effect on us. If the FDA indicates that a PMA is required for any of our potential future clinical products, the application will require extensive clinical studies, manufacturing information and likely review by a panel of experts outside the FDA. Clinical studies to support either a 510(k) submission or a PMA application would need to be conducted in accordance with FDA requirements. Failure to comply with FDA requirements could result in the FDA's refusal to accept the data or the imposition of regulatory sanctions. We cannot assure that any necessary 510(k) clearance or PMA approval will be granted on a timely basis, or at all. To the extent we seek FDA 510(k) clearance or FDA pre-market approval for other diagnostic tests, any delay by or failure of the FDA to clear or approve those diagnostic tests may adversely affect our consolidated revenues, results of operations and financial condition.

If we or our suppliers fail to comply with FDA requirements, we may not be able to market our products and services and may be subject to stringent penalties; further improvements to our or our suppliers' manufacturing operations may be required that could entail additional costs.

The commercialization of our products could be delayed, halted or prevented by applicable FDA regulations. If the FDA were to view any of our actions as non-compliant, it could initiate enforcement actions, such as a warning letter and possible imposition of penalties. In addition, analyte specific reagents ("ASRs") that we may provide would be subject to a number of FDA requirements, including compliance with the FDA's Quality System Regulations ("QSR"), which establish extensive requirements for quality assurance and control as well as manufacturing procedures. Failure to comply with these regulations could result in enforcement actions for us or our potential suppliers. Adverse FDA actions in any of these areas could significantly increase our expenses and limit our revenue and profitability. We will need to undertake steps to maintain our operations in line with the FDA's QSR requirements. Some components of OVA1 are manufactured by other companies and we are required to maintain supply agreements with these companies. If these agreements are not satisfactory to the FDA, we will have to renegotiate these agreements. Any failure to do so would have an adverse effect on our ability to commercialize OVA1. Our suppliers' manufacturing facilities will be subject to periodic regulatory inspections by the FDA and other federal and state regulatory agencies. If and when we begin commercializing and assembling our products by ourselves, our facilities will be subject to the same inspections. We or our suppliers may not satisfy such regulatory requirements, and any such failure to do so would have an adverse effect on our commercialization efforts.

If we fail to continue to develop our technologies, we may not be able to successfully foster adoption of our products and services or develop new product offerings.

Our technologies are new and complex, and are subject to change as new discoveries are made. New discoveries and advancements in the diagnostic field are essential if we are to foster the adoption of our product offerings. Development of these technologies remains a substantial risk to us due to various factors, including the scientific challenges involved, our ability to find and collaborate successfully with others working in the diagnostic field, and competing technologies, which may prove more successful than our technologies.

If we fail to maintain our rights to utilize intellectual property directed to diagnostic biomarkers, we may not be able to offer diagnostic tests using those biomarkers.

One aspect of our business plan is to develop diagnostic tests based on certain biomarkers, which we have the right to utilize through licenses with our academic collaborators, such as the Johns Hopkins University School of Medicine, Stanford University, and the University of Texas M.D. Anderson Cancer Center. In some cases, our collaborators own the entire right to the biomarkers. In other cases, we co-own the biomarkers with our collaborators. If, for some reason, we lose our license to biomarkers owned entirely by our collaborators, we may not be able to use those biomarkers in diagnostic tests. If we lose our exclusive license to biomarkers co-owned by us and our collaborators, our collaborators may license their share of the intellectual property to a third party that may compete with us in offering diagnostic tests, which would materially adversely affect our consolidated revenues, results of operations and financial condition.

We have \$7,000,000 outstanding from the secured line of credit provided by Quest Diagnostics. If we fail to achieve the milestones for the forgiveness of the secured line of credit set forth in our amended credit agreement with Quest Diagnostics, we will be responsible for full repayment of the secured line of credit on October 7, 2012.

As of December 31, 2010, we have \$7,000,000 outstanding from the secured lined of credit in connection with the Strategic Alliance. Over a two-year period, we borrowed monthly increments of \$417,000, totaling \$10,000,000, and have paid all interest that was due. Funds from this secured line of credit were used for certain costs and expenses directly related to the Strategic Alliance, with forgiveness of the repayment obligations based upon our achievement of milestones related to the development, regulatory approval and commercialization of certain diagnostic tests. On October 7, 2009, the Strategic Alliance Agreement was amended to extend the term of the agreement to end on the earlier of (i) October 7, 2012 and (ii) the date on which Quest Diagnostics has commercially launched three licensed tests under the Strategic Alliance. On September 11, 2009, we announced our milestone achievement of clearing OVA1 with the FDA and, effective after the emergence from bankruptcy, reduced our principal obligations under the Amended Strategic Alliance Agreement to \$7,000,000. We are in discussions with Quest Diagnostics regarding the achievement of an additional \$1,000,000 forgiveness milestone related to OVA1 under the terms of the Amended Strategic Alliance Agreement. Should we fail to achieve the remaining milestones, we would be responsible for the repayment of the outstanding principal amount and any unpaid interest on the secured line of credit on October 7, 2012, which could materially adversely affect our consolidated results of operations and financial condition.

If a competitor infringes on our proprietary rights, we may lose any competitive advantage we may have as a result of diversion of our time, enforcement costs and the loss of the exclusivity of our proprietary rights.

Our success depends in part on our ability to maintain and enforce our proprietary rights. We rely on a combination of patents, trademarks, copyrights and trade secrets to protect our technology and brand. We have submitted a number of patent applications covering biomarkers that may have diagnostic or therapeutic utility. Our patent applications may or may not result in additional patents being issued.

If competitors engage in activities that infringe on our proprietary rights, our focus will be diverted and we may incur significant costs in asserting our rights. We may not be successful in asserting our proprietary rights, which could result in our patents being held invalid or a court holding that the competitor is not infringing, either of which would harm our competitive position. We cannot be sure that competitors will not design around our patented technology.

We also rely upon the skills, knowledge and experience of our technical personnel. To help protect our rights, we require all employees and consultants to enter into confidentiality agreements that prohibit the disclosure of confidential information. These agreements may not provide adequate protection for our trade secrets, knowledge or other proprietary information in the event of any unauthorized use or disclosure. If any

trade secret, knowledge or other technology not protected by a patent were to be disclosed to or independently developed by a competitor, it could have a material adverse effect on our business, consolidated results of operations and financial condition.

If others successfully assert their proprietary rights against us, we may be precluded from making and selling our products or we may be required to obtain licenses to use their technology.

Our success depends on avoiding infringing on the proprietary technologies of others. If a third party were to assert claims that we are violating their patents, we might incur substantial costs defending ourselves in lawsuits against charges of patent infringement or other unlawful use of another's proprietary technology. Any such lawsuit may not be decided in our favor, and if we are found liable, it may be subject to monetary damages or injunction against using the technology. We may also be required to obtain licenses under patents owned by third parties and such licenses may not be available to us on commercially reasonable terms, if at all.

Current and future litigation against us could be costly and time consuming to defend.

We are from time to time subject to legal proceedings and claims that arise in the ordinary course of business, such as claims brought by our clients in connection with commercial disputes, employment claims made by current or former employees, and claims brought by third parties alleging infringement on their intellectual property rights. In addition, we may bring claims against third parties for infringement on our intellectual property rights. Litigation may result in substantial costs and may divert our attention and resources, which may seriously harm our business, consolidated results of operations and financial condition.

An unfavorable judgment against us in any legal proceeding or claim could require us to pay monetary damages. In addition, an unfavorable judgment in which the counterparty is awarded equitable relief, such as an injunction, could have an adverse impact on our licensing and sublicensing activities, which could harm our business, consolidated results of operations and consolidated financial condition.

On July 9, 2007, Molecular Analytical Systems filed a lawsuit in the Superior Court of California for the County of Santa Clara naming Vermillion and Bio-Rad as defendants (the "State Court lawsuit"). Under the State Court lawsuit, MAS sought an unspecified amount of damages and alleged, among other things, that we are in breach of its license agreement with MAS relating to our SELDI technology as a result of our entry into a sublicense agreement with Bio-Rad. We filed a petition to compel arbitration, which was denied in the trial court. We then filed our general denial and affirmative defenses on April 1, 2008. The Company and Bio-Rad thereafter appealed the denial of the motion to compel arbitration, which appeal had the effect of staying the State Court lawsuit, which stay was further extended in both the state trial and appellate courts when we filed for bankruptcy protection on March 30, 2009, a Voluntary Petition for Relief under Chapter 11 in the Bankruptcy Court. MAS filed a proof of claim on July 15, 2009, in connection with our Chapter 11 bankruptcy proceedings. The proof of claim mirrored the MAS lawsuit and asserted that we breached the Exclusive License Agreement by transferring certain technologies to Bio-Rad without obtaining MAS's consent. MAS listed the value of its claim as in excess of \$5,000,000. On December 28, 2009, we objected to MAS's Proof of Claim in the Bankruptcy Court. On January 7, 2010, the Bankruptcy Court confirmed our Plan of Reorganization. Per the Court's order confirming the Plan, our bankruptcy case will be closed when, along with other requirements, a final, non-appealable judgment is entered on MAS's claims. After the Plan of Reorganization was confirmed, MAS filed a motion with the Bankruptcy Court asking it to abstain from hearing its proof of claim and asked the Bankruptcy Court to grant relief from the automatic stay so that MAS could proceed with the State Court lawsuit in California. Over our objection, the Bankruptcy Court granted that motion on March 16, 2010. Thereafter, the California Court of Appeal set oral argument on our appeal of the trial court order denying our motion to compel arbitration for June 17, 2010. The California Court of Appeals overturned the Superior Court's decision in an opinion dated July 9, 2010, and ordered that the dispute be arbitrated before the Judicial Arbitration and Mediation Service ("JAMS"). MAS filed its demand for arbitration on September 15, 2010. The demand did not include any additional detail regarding MAS's claims, and submitted the same complaint for unspecified damages that MAS

filed in the Superior Court in 2007. The parties have begun to exchange initial disclosures in the arbitration, but JAMS has not yet set a schedule for resolution of MAS's claims, and management cannot predict the ultimate outcome of this matter at this time.

Our failure to meet our purchase commitments pursuant to a manufacture and supply agreement with Bio-Rad could adversely affect our consolidated results of operations and financial condition.

We are a party to a manufacture and supply agreement with Bio-Rad, dated November 13, 2006, whereby we agreed to purchase from Bio-Rad the ProteinChip Systems and ProteinChip Arrays necessary to support our diagnostics efforts. Under the terms of the agreement, we were required to purchase a specified number of ProteinChip Systems and ProteinChip Arrays in each of the three years following the date of the agreement. Pursuant to a letter from us to Bio-Rad dated May 2, 2008, we exercised our right to terminate the agreement for convenience upon 180 days' written notice. Consequently, termination of the agreement became effective on October 29, 2008. In our bankruptcy proceeding, Bio-Rad filed a claim for approximately \$1,000,000. If we are unable to resolve this claim, it would have an adverse effect on our consolidated cash flows.

Because our business is highly dependent on key executives and employees, our inability to recruit and retain these people could hinder our business plans.

We are highly dependent on our executive officers and certain key employees. Our executive officers and key employees are employed at will by us. Any inability to engage new executive officers or key employees could impact operations or delay or curtail our research, development and commercialization objectives. To continue our research and product development efforts, we need people skilled in areas such as clinical operations, regulatory affairs and clinical diagnostics. Competition for qualified employees is intense.

Our diagnostic efforts may cause us to have significant product liability exposure.

The testing, manufacturing and marketing of medical diagnostic tests entail an inherent risk of product liability claims. Potential product liability claims may exceed the amount of our insurance coverage or may be excluded from coverage under the terms of the policy. Our existing insurance will have to be increased in the future if we are successful at introducing new diagnostic products and this will increase our costs. In the event that we are held liable for a claim or for damages exceeding the limits of our insurance coverage, we may be required to make substantial payments. This may have an adverse effect on our consolidated results of operations, financial condition and cash flows, and may increase the volatility of our common stock price.

Business interruptions could limit our ability to operate our business.

Our operations, as well as those of the collaborators on which we depend, are vulnerable to damage or interruption from fire; natural disasters, including earthquakes; computer viruses; human error; power shortages; telecommunication failures; international acts of terror; and similar events. Although we have certain business continuity plans in place, we have not established a formal comprehensive disaster recovery plan, and our back-up operations and business interruption insurance may not be adequate to compensate it for losses we may suffer. A significant business interruption could result in losses or damages incurred by us and require us to cease or curtail our operations.

If we fail to maintain proper and effective internal controls, our ability to produce accurate and timely financial statements could be impaired, which could adversely affect our business, operating results, and financial condition.

We are required to comply with the management certification requirements of Section 404 of the Sarbanes-Oxley Act of 2002. We are required to report, among other things, control deficiencies that constitute a "material weakness" or changes in internal controls that, or that are reasonably likely to, materially affect internal controls over financial reporting. A "material weakness" is a deficiency or combination of deficiencies that results in a reasonable possibility that a material misstatement of the annual or interim consolidated financial statements will

not be prevented or detected. If we fail to continue to comply with the requirements of Section 404, we might be subject to sanctions or investigation by regulatory authorities such as the SEC. If we fail to remedy any material weakness, our consolidated financial statements may be inaccurate, which could adversely affect our business, operating results, and financial condition.

Legislative actions resulting in higher compliance costs are likely to adversely affect our future consolidated results of operations, financial position and cash flows.

Compliance with laws, regulations and standards relating to corporate governance and public disclosure, including the Sarbanes-Oxley Act of 2002, and new regulations adopted by the SEC, are resulting in increased compliance costs. We, like all other public companies, are incurring expenses and diverting employees' time in an effort to comply with Section 404 of the Sarbanes-Oxley Act of 2002. We have completed the process of documenting our systems of internal control and have evaluated our systems of internal control. Beginning with the year ended December 31, 2004, we have been required to assess continuously our compliance with Section 404 of the Sarbanes-Oxley Act of 2002. We expect to continue to devote the necessary resources, including internal and external resources, to support our assessment. In the future, if we identify one or more material weaknesses, or our independent registered public accounting firm is unable to attest that our report is fairly stated or to express an opinion on the effectiveness of our internal controls over financial reporting, this could result in a loss of investor confidence in our financial reports, have an adverse effect on our stock price and/or subject us to sanctions or investigation by regulatory authorities. Compliance with these evolving standards will result in increased general and administrative expenses and may cause a diversion of our time and attention from revenue-generating activities to compliance activities.

Changes in healthcare policy could increase our costs and impact sales of and reimbursement for our tests.

In March 2010, President Barack Obama signed the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Affordability Reconciliation Act (collectively, the "PPACA"), which makes changes that are expected to significantly impact the pharmaceutical and medical device industries. Beginning in 2013, each medical device manufacturer will have to pay a sales tax in an amount equal to 2.3 percent of the price for which such manufacturer sells its medical devices. The PPACA also mandates a reduction in payments for clinical laboratory services paid under the Medicare Clinical Laboratory Fee Schedule of 1.75% for the years 2011 through 2015. This adjustment is in addition to a productivity adjustment to the Clinical Laboratory Fee Schedule. In addition to the PPACA, the impact of which cannot be predicted given its recent enactment and current lack of implementing regulations or interpretive guidance, a number of states are also contemplating significant reform of their healthcare policies. We cannot predict whether future healthcare initiatives will be implemented at the federal or state level, or the effect any future legislation or regulation will have on us. The taxes imposed by the new federal legislation may result in decreased profits to us, and lower reimbursements by payers for our tests, all of which may adversely affect our business.

We are subject to environmental laws and potential exposure to environmental liabilities.

We are subject to various international, federal, state and local environmental laws and regulations that govern our operations, including the handling and disposal of non-hazardous and hazardous wastes, the recycling and treatment of electrical and electronic equipment, and emissions and discharges into the environment. Failure to comply with such laws and regulations could result in costs for corrective action, penalties or the imposition of other liabilities. We are also subject to laws and regulations that impose liability and clean-up responsibility for releases of hazardous substances into the environment. Under certain of these laws and regulations, a current or previous owner or operator of property may be liable for the costs to remediate hazardous substances or petroleum products on or from its property, without regard to whether the owner or operator knew of, or caused, the contamination, as well as incur liability to third parties affected by such contamination. The presence of, or failure to remediate properly, such substances could adversely affect the value and the ability to transfer or encumber such property. Based on currently available information, although there can be no assurance, we

believe that such costs and liabilities have not had and will not have a material adverse impact on our consolidated results of operations.

Risks Related to Owning our Stock

The liquidity and trading volume of our common stock may be low.

The liquidity and trading volume of our common stock has at times been low in the past and may again be low in the future. If the liquidity and trading volume were to fall, this could impact the trading price of our shares and adversely affect our ability to issue stock and for holders to obtain liquidity in their shares should they desire to sell.

Our stock price has been, and may continue to be, highly volatile, and an investment in our stock could suffer a decline in value.

The trading price of our common stock has been highly volatile and could continue to be subject to wide fluctuations in price in response to various factors, many of which are beyond our control, including:

- failure to significantly increase revenue;
- actual or anticipated period-to-period fluctuations in financial results;
- failure to achieve, or changes in, financial estimates by securities analysts;
- announcements or introductions of new products or services or technological innovations by us or our competitors;
- publicity regarding actual or potential discoveries of biomarkers by others;
- comments or opinions by securities analysts or major stockholders;
- conditions or trends in the pharmaceutical, biotechnology and life science industries;
- announcements by us of significant acquisitions and divestitures, strategic partnerships, joint ventures or capital commitments;
- developments regarding our patents or other intellectual property or that of our competitors;
- litigation or threat of litigation;
- additions or departures of key personnel;
- limited daily trading volume; and
- economic and other external factors, disasters or crises.

In addition, the stock market in general and the market for diagnostic technology companies, in particular, have experienced significant price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of those companies. These broad market and industry factors may seriously harm the market price of our common stock, regardless of our operating performance. In the past, following periods of volatility in the market price of a company's securities, securities class action litigation has often been instituted. A securities class action suit against us could result in substantial costs, potential liabilities and the diversion of our attention and our resources.

Anti-takeover provisions in our charter, bylaws and stockholder rights plan and under Delaware law could make a third party acquisition of the Company difficult.

Our certificate of incorporation, bylaws and stockholder rights plan contain provisions that could make it more difficult for a third party to acquire us, even if doing so might be deemed beneficial by our stockholders. These provisions could limit the price that investors might be willing to pay in the future for shares of our

common stock. We are also subject to certain provisions of Delaware law that could delay, deter or prevent a change in control of the Company. The rights issued pursuant to our stockholder rights plan will become exercisable the tenth day after a person or group announces acquisition of 15% or more of our common stock or announces commencement of a tender or exchange offer the consummation of which would result in ownership by the person or group of 15% or more of our common stock. If the rights become exercisable, the holders of the rights (other than the person acquiring 15% or more of our common stock) will be entitled to acquire, in exchange for the rights' exercise price, shares of our common stock or shares of any company in which we are merged, with a value equal to twice the rights' exercise price.

Because we do not intend to pay dividends, our stockholders will benefit from an investment in our common stock only if it appreciates in value.

We have never declared or paid any cash dividends on our common stock. We currently intend to retain our future earnings, if any, to finance the expansion of our business and do not expect to pay any cash dividends in the foreseeable future. As a result, the success of an investment in our common stock will depend entirely upon any future appreciation. There is no guarantee that our common stock will appreciate in value or even maintain the price at which our investors purchased their shares.

We may need to sell additional shares of our common stock or other securities in the future beyond what we have raised in a follow-on public offering on February 18, 2011 to meet our capital requirements which could cause significant dilution.

On February 18, 2011, we completed a follow-on public offering of our common stock in which we issued an additional 4 million shares and raised approximately \$20.2 million in net proceeds. As of December 31, 2010, we had 10,657,564 shares of our common stock outstanding and 1,013,983 shares of our common stock reserved for future issuance to employees, directors and consultants pursuant to our employee stock plans, which excludes 849,485 shares of our common stock that were subject to outstanding options. As of December 31, 2010, 75,637 shares of restricted stock to the certain Directors pursuant to the Debtor's Incentive Plan and 6,252 shares of restricted stock awards to certain employees pursuant to the 2010 Plan were not vested. These shares vest ratably through June 2011. In addition, as of December 31, 2010, warrants to purchase 415,782 shares of our common stock were outstanding at exercise prices ranging from \$9.25 to \$25.00 per share, with a weighted average exercise price of \$17.59 per share. Also at December 31, 2010, there were 250,000 shares of our common stock reserved for issuance upon conversion of the 7.00% Notes.

The exercise or conversion of all or a portion of our senior notes, outstanding options and warrants, and the vesting of our restricted stock, would dilute the ownership interests of our stockholders. Furthermore, future sales of substantial amounts of our common stock in the public market, or the perception that such sales are likely to occur, could affect prevailing trading prices of our common stock and the value of the notes.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our principal facility is located in Austin, Texas. The following chart indicates the facilities that we lease, the location and size of each facility and its designated use.

<u>Location</u>	<u>Approximate Square Feet</u>	<u>Primary Functions</u>	<u>Lease Expiration Date</u>
Austin, Texas	4,218 sq. ft.	Marketing, sales and administrative offices	2012
Mountain View, California	2,442 sq. ft.	Research and development, clinical and regulatory offices	2012

ITEM 3. LEGAL PROCEEDINGS

Molecular Analytical Systems, Inc. Litigation

On July 9, 2007, Molecular Analytical Systems (“MAS”) filed a lawsuit in the Superior Court of California for the County of Santa Clara naming Vermillion and Bio-Rad as defendants (the “State Court lawsuit”). Under the State Court lawsuit, MAS sought an unspecified amount of damages and alleged, among other things, that we are in breach of its license agreement with MAS relating to our SELDI technology as a result of our entry into a sublicense agreement with Bio-Rad. We filed a petition to compel arbitration, which was denied in the trial court. We then filed our general denial and affirmative defenses on April 1, 2008. The Company and Bio-Rad thereafter appealed the denial of the motion to compel arbitration, which appeal had the effect of staying the State Court lawsuit, which stay was further extended in both the state trial and appellate courts when we filed on March 30, 2009, a Voluntary Petition for Relief under Chapter 11 in the Bankruptcy Court. MAS filed a proof of claim on July 15, 2009, in connection with our Chapter 11 bankruptcy proceedings. The proof of claim mirrored the MAS lawsuit and asserted that we breached the Exclusive License Agreement by transferring certain technologies to Bio-Rad without obtaining MAS’s consent. MAS listed the value of its claim as in excess of \$5,000,000. On December 28, 2009, we objected to MAS’s Proof of Claim in the Bankruptcy Court. On January 7, 2010, the Bankruptcy Court confirmed our Plan of Reorganization. Per the Court’s order confirming the Plan, our bankruptcy case will be closed when, along with other requirements, a final, non-appealable judgment is entered on MAS’s claims. After the Plan of Reorganization was confirmed, MAS filed a motion with the Bankruptcy Court asking it to abstain from hearing its proof of claim and asked the Bankruptcy Court to grant relief from the automatic stay so that MAS could proceed with the State Court lawsuit in California. Over our objection, the Bankruptcy Court granted that motion on March 15, 2010. Thereafter, the California Court of Appeal set oral argument on our appeal of the trial court order denying our motion to compel arbitration for June 17, 2010. The California Court of Appeals overturned the Superior Court’s decision in an opinion dated July 9, 2010, and ordered that the dispute be arbitrated before JAMS. MAS filed its demand for arbitration on September 15, 2010. The demand did not include any additional detail regarding MAS’s claims, and submitted the same complaint for unspecified damages that MAS filed in the Superior Court in 2007. The parties have begun to exchange initial disclosures in the arbitration, but JAMS has not yet set a schedule for resolution of MAS’s claims, and management cannot predict the ultimate outcome of this matter at this time.

Bio-Rad Laboratories, Inc. Matters

On November 13, 2006, we completed the Instrument Business Sale to Bio-Rad. The Instrument Business Sale included our SELDI technology, ProteinChip arrays and accompanying software. Pursuant to the terms of the sales agreement, the total sales price was \$20,000,000, of which \$16,000,000 was paid by Bio-Rad to us at the closing of the transaction on November 13, 2006. A total of \$4,000,000 was held back from the sales proceeds contingent upon our meeting certain obligations, of which \$2,000,000 was subsequently paid to us in fiscal 2007 upon the issuance by the United States Patent and Trademark Office of a reexamination certificate for United States Patent No. 6,734,022. From the amounts held back, the remaining \$2,000,000, subject to certain adjustments, is being held in escrow to serve as security for us to fulfill certain obligations.

In connection with the Instrument Business Sale, we entered into a letter agreement with Bio-Rad pursuant to which we agreed to indemnify Bio-Rad and its subsidiaries with respect to certain payments made by Bio-Rad in connection with the termination of employees of its former subsidiary in the United Kingdom in the six-month period immediately following the Instrument Business Sale. On May 4, 2007, Bio-Rad delivered a claim for indemnification under the agreement for \$307,000, which was paid out of \$2,000,000 held in escrow. In August 2009, Bio-Rad also filed a proof of claim in the bankruptcy case for indemnification of the MAS lawsuit. Management is disputing the claim and cannot predict the ultimate outcome of this matter at this time.

In connection with the Instrument Business Sale, we also entered into a manufacture and supply agreement with Bio-Rad on November 13, 2006, whereby we agreed to purchase ProteinChip Systems and ProteinChip Arrays (collectively, the “Research Tools Products”) from Bio-Rad. Under the terms of the manufacture and

supply agreement, we agreed to provide Bio-Rad quarterly, non-binding, twelve-month rolling forecasts setting forth our anticipated needs for Research Tools Products over the forecast period. We were permitted to provide revised forecasts as necessary to reflect changes in demand for the products, and Bio-Rad was required to use commercially reasonable efforts to supply amounts in excess of the applicable forecast. Either party was permitted to terminate the agreement for convenience upon 180 days' prior written notice, or upon default if the other party failed to cure such default within 30 days after notice thereof. In a letter from us to Bio-Rad dated May 2, 2008, we exercised our right to terminate the November 13, 2006 manufacture and supply agreement for convenience upon 180 days' written notice. Consequently, termination of the agreement became effective on October 29, 2008. In October 2009, Bio-Rad filed a proof of claim in our bankruptcy case based on certain contract claims for approximately \$1,000,000. We are attempting to resolve the contract claims and have accrued for this contingency within general and administrative expense at December 31, 2010 and 2009. Management cannot predict the ultimate outcome of this matter at this time.

Health Discovery Corporation Litigation

On June 26, 2006, Health Discovery Corporation ("HDC") filed a lawsuit against Vermillion in the United States District Court for the Eastern District of Texas, Marshall Division (the "Court"), claiming that software used in certain of our ProteinChip Systems infringes on three of its United States patents. HDC sought injunctive relief as well as unspecified compensatory and enhanced damages, reasonable attorney's fees, prejudgment interest and other costs. On August 1, 2006, we filed an unopposed motion with the Court to extend the deadline for us to answer or otherwise respond until September 2, 2006. We filed our answer and counterclaim to the complaint with the Court on September 1, 2006. Concurrent with our answer and counterclaims, we filed a motion to transfer the case to the Northern District of California. On January 10, 2007, the Court granted us motion to transfer the case to the Northern District of California. The parties met for a scheduled mediation on May 7, 2007. On July 10, 2007, we entered into a license and settlement agreement with HDC pursuant to which we licensed more than 25 patents covering HDC's support vector machine technology for use with SELDI technology. Under the terms of the HDC Agreement, we receive a worldwide, royalty-free, non-exclusive license for life sciences and diagnostic applications of the technology and have access to any future patents resulting from the underlying intellectual property in conjunction with use of SELDI systems. Pursuant to the HDC Agreement, we paid \$200,000 to HDC upon entry into the agreement on July 13, 2007, \$100,000 three months following the date of the agreement on October 9, 2007, and \$150,000 twelve months following the date of the agreement on July 9, 2008. The remaining \$150,000 payable under the HDC Agreement, which was due twenty-four months following the date of the agreement and payable as of December 31, 2008, was subsequently paid on January 22, 2010. The HDC Agreement settled all disputes between the Company and HDC.

Debtor's Incentive Plan

In connection with the Bankruptcy Filing, on April 21, 2009, we filed the Debtor's Motion for Entry of an Order Approving the Debtor's Incentive Plan (the "Debtor's Incentive Plan") and Authorizing Payments thereunder pursuant to §§ 363(b) and 503(b) of the Bankruptcy Code (the "Incentive Plan Motion") which sought to provide proper incentives to the directors (Gail Page, John Hamilton and James Burns, collectively, the "Directors") to help achieve a successful sale or restructuring of the Company. At a hearing on June 22, 2009, the Court entered an Order approving the Incentive Plan Motion (the "Incentive Plan Order"). The Debtor's Incentive Plan is only triggered upon the occurrence of a qualified transaction defined as the closing of any sale pursuant to section 363 of the Bankruptcy Code or the effectiveness of a Reorganization Plan confirmed pursuant to section 1129 of the Bankruptcy Code. The Debtor's Incentive Plan payment was based upon a percentage of (A) the gross proceeds of Asset Sales, both prior to and after the Food and Drug Administration approval of the ovarian tumor triage test, and (B) the value of consideration - cash, debt and equity - distributed pursuant to a confirmed Reorganization Plan. In the end, the Incentive Plan Order provided that the Directors would receive: (i) zero, on Qualified Transaction Proceeds of 3,000,000 or less, (ii) 6% on Qualified Transaction Proceeds of \$3,000,001 to \$10,000,000, and (iii) 8% on Qualified Transaction Proceeds of greater than \$10,000,000. While the Incentive Plan Order provided us with the authority to make distributions under the Debtor's Incentive Plan,

we agreed as part of the Plan of Reorganization to seek final judicial approval of the amounts to be paid pursuant to the Debtor's Incentive Plan. On April 13, 2010, our counsel, the Official Committee of the Equity Security Holders, and the Directors submitted a proposed settlement to the Bankruptcy Court. On April 14, 2010, after a hearing, an order was issued by the Bankruptcy Court approving the Debtor's Incentive Plan. Under the Debtor's Incentive Plan, we were directed to distribute an aggregate of \$5,000,000 in cash and 302,541 shares of restricted stock having a fair value of \$6,626,000 in Debtor's Incentive Plan payments to the Directors. All such restricted stock vests with respect to 1/24th of the total distributed on each monthly anniversary of the vesting commencement date, June 22, 2009. The total Debtor's Incentive Plan payments were allocated to Gail Page, James Burns and John Hamilton on a 60%-20%-20% basis, respectively. The contingency was accounted for upon the occurrence of the qualified transaction on January 7, 2010 when the Bankruptcy Courts issued a confirmation order approving our Reorganization Plan. For the year ended December 31, 2010, we incurred \$9,969,000 under the terms of the Debtor's Incentive Plan, of which \$6,932,000 was recorded in Reorganization Items for the period prior to emerging from bankruptcy under the Bankruptcy Code and \$3,037,000 was recorded in general and administrative expenses for the period subsequent to emerging from bankruptcy under the Bankruptcy Code. In April 2010, we distributed an aggregate of \$5,000,000 in cash to the Directors. We distributed 226,904 shares of our common stock to the Directors under the Debtor's Incentive Plan during the year ended December 31, 2010.

In addition, from time to time, we are involved in legal proceedings and regulatory proceedings arising out of our operations. We established reserves for specific liabilities in connection with legal actions that it deems to be probable and estimable. Other than as disclosed above, we are not currently a party to any proceeding, the adverse outcome of which would have a material adverse effect on our financial position or results of operations.

ITEM 4. [REMOVED AND RESERVED]

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our common stock is traded on The Nasdaq Global Market under the symbol "VRML."

On September 25, 2008, our common stock was delisted from and suspended from trading on The Nasdaq Capital Market as a result of our noncompliance with the listing criteria under Marketplace Rule 4310(c)(3). Upon delisting from The Nasdaq Capital Market, our common stock became immediately eligible for quotation and began trading over-the-counter ("OTC") on Pink Quote, formerly known as Pink Sheets, electronic quotation system ("Pink Quote") on September 25, 2008, under the ticker symbol "VRML.PK". After a market maker's application to trade our common stock on the OTC Bulletin Board was approved by the Financial Industry Regulatory Authority, our common stock began trading on the OTC Bulletin Board under the ticker symbol "VRML.OB" on October 10, 2008.

In connection to our March 30, 2009 filing for relief under the Bankruptcy Code in the Bankruptcy Court, our common stock began trading under the ticker symbol "VRMLQ.OB" on April 6, 2009. On April 20, 2009, our common stock began trading under the ticker symbol "VRMQE.OB" as a result of us becoming a delinquent filer of our required financial reports to the SEC under the National Association of Securities Dealers, Inc. ("NASD") Rule 6530. After a 30-day grace period on May 20, 2009, our common stock was delisted from the OTC Bulletin Board for noncompliance with NASD Rule 6530. Upon delisting from the OTC Bulletin Board, our common stock became immediately eligible for quotation and began trading on Pink Quote under the ticker symbol "VRMLQ.PK" on May 20, 2009. On January 27, 2010, our common stock began trading under the symbol "VRML.PK" in connection with our emergence from bankruptcy under the Bankruptcy Code on January 22, 2010.

On July 6, 2010, The Nasdaq Stock Market LLC relisted our common stock on The Nasdaq Global Market. On February 1, 2011, there were 64 registered holders of record of our common stock, including multiple beneficial holders and depositories, banks and brokers listed as a single holder in the street name of each respective depository, bank or broker. The closing price of our common stock on February 18, 2011 was \$5.28.

The following sets forth the quarterly high and low trading prices as reported by The Nasdaq Global Market, Pink Quote and OTC Bulletin Board for the periods indicated. Any prices reflecting OTC quotations are based on quotations between dealers, which do not reflect retail mark-up, markdown or commissions, and do not necessarily represent actual transactions.

	2010		2009	
	High	Low	High	Low
First Quarter	\$34.00	\$20.90	\$ 0.90	\$0.21
Second Quarter	29.00	10.95	1.20	0.02
Third Quarter	13.50	4.95	14.00	0.01
Fourth Quarter	9.49	4.53	28.45	9.56

Dividends

We have never paid or declared any dividend on our common stock and we do not anticipate paying cash dividends on our common stock in the foreseeable future. If we pay a cash dividend on our common stock, we also may be required to pay the same dividend on an as-converted basis on any outstanding preferred stock, warrants, convertible notes or other securities. Moreover, any preferred stock or other senior debt or equity securities to be issued and any future credit facilities might contain restrictions on our ability to declare and pay dividends on our common stock. We intend to retain all available funds and any future earnings to fund the development and expansion of our business.

Unregistered Sales of Equity Securities

On January 7, 2010, we closed a private placement transaction with a group of investors. We received \$43,050,000 in gross proceeds from the sale of 2,327,869 shares of our common stock at a price of \$18.4932 per share. The shares of our common stock issued in connection with the private placement were exempted from the registration requirement pursuant to Regulation D of the Securities Act. Accordingly, these restricted shares were subject to the resale limitations of Rule 144 under the Securities Act, as a transaction not involving a public offering because, among other things, the investors were accredited investors at the time of the transaction and appropriate legends were affixed to the instruments representing such securities issued in such transaction.

From November 30, 2009, through January 22, 2010, we exchanged 428,906 shares of our common stock for \$7,100,000 in principal and unpaid interest of \$732,000 related to the convertible senior notes due September 1, 2011. From October 21, 2009 through November 19, 2009, \$4,400,000 in principal related to the 7.00% Notes was converted into 220,000 shares of our common stock. The offer and issuance of the securities was exempt from registration under Section 3(a)(9) of the Securities Act.

From November 24, 2009 to January 22, 2010, we exchanged a total of 15,794 shares of our common stock for \$305,000 in principal and \$18,000 in unpaid interest related to the convertible senior notes due September 1, 2009 (the "4.50% Notes"). The offer and issuance of the securities was exempt from registration under Section 3(a)(9) of the Securities Act.

From October 5, 2009, through April 12, 2010, we issued 990 shares of our common stock for \$12,000 from the cash exercise of warrants dated August 3, 2006, with an exercise price of \$12.60 per share (the "August 3 Warrants"), and 3,496 shares of our common stock from the cashless exercise of 8,625 underlying common stock shares of the August 3 Warrants. From October 5, 2009, through April 12, 2010, we issued 990 shares of our common stock for \$12,000 from the cash exercise of warrants dated November 15, 2006, with an exercise price of \$12.60 per share (the "November 15 Warrants"), and 3,486 shares of our common stock from the cashless exercise of 8,625 underlying common stock shares of the November 15 Warrants. From September 29, 2009, through March 4, 2010, we issued 392,120 shares of our common stock for \$3,627,000 from the cash exercise of warrants dated August 29, 2007, with an exercise price of \$9.25 per share (the "2007 Warrants"), and 521,213 shares of our common stock from the cashless exercise of 1,435,678 underlying common stock shares of the 2007 Warrants. The offer and issuance of securities is subject to the resale limitations of Rule 144 under the Securities Act.

On August 29, 2007, we completed a private placement sale of 2,451,309 shares of our common stock and a warrant to purchase up to an additional 1,961,047 shares of our common stock with an exercise price of \$9.25 per share and expiration date of August 29, 2012, to a group of existing and new investors for \$20,591,000 in gross proceeds. In connection with Quest Diagnostics participation in this transaction, we amended a warrant to purchase an additional 220,000 shares of our common stock that was originally issued to Quest Diagnostics on July 22, 2005. Pursuant to the terms of the amendment, the warrant to purchase 220,000 shares of our common stock was reduced from \$35.00 per share to \$25.00 per share and the expiration date was extended from July 22, 2010, to July 22, 2011. The sale, offer and issuance of the securities was exempt from registration under Section 4(2) and/or Rule 506 of Regulation D of the Securities Act, as a transaction not involving a public offering because, among other things, the investors were accredited investors at the time of the transaction and appropriate legends were affixed to the instruments representing such securities issued in such transaction.

As partial consideration for services as placement agent in connection with the August 29, 2007 private placement sale, we issued a warrant to purchase up to 92,100 shares of our common stock with an exercise price of \$9.25 per share and expiration date of August 29, 2012 to Oppenheimer & Co. Inc. ("Oppenheimer"). Our Board of Directors determined the value of such warrants to be equal to the price paid for the warrants by the investors in the offering, or \$1.25 per warrant share, for an aggregate value of \$115,000. The sale, offer and issuance of the securities was exempt from registration under Section 4(2) and/or Rule 506 of Regulation D of

the Securities Act, as a transaction not involving a public offering, because among other things, Oppenheimer was an accredited investor at the time of the transaction and appropriate legends were affixed to the instruments representing such securities issued in such transaction.

Equity Compensation Plan Information

We currently maintain three equity-based compensation plans that were approved by our stockholders. The plans are the Amended and Restated 2000 Stock Plan (the “2000 Plan”), the Amended and Restated 2000 Employee Stock Purchase Plan (the “2000 ESPP”), and the 2010 Stock Incentive Plan (the “2010 Plan”).

2000 Plan. The authority of our Board of Directors to grant new stock options and awards under the 2000 Plan terminated in 2010. The Board of Directors continues to administer the 2000 Plan with respect to the stock options that remain outstanding to our officers, employees, directors and a consultant. At December 31, 2010, there were 646,485 shares of stock options that remain outstanding under the 2000 Plan.

2000 ESPP. Subject to limits, all of our officers and employees in the United States are eligible to participate in the 2000 ESPP. The 2000 ESPP operates in successive six-month offering and purchase periods. Participants in the ESPP may purchase our common stock at the end of each purchase period at a purchase price equal to 85.0% of the lower of the fair market value of our common stock at the beginning of the offering period or the end of the purchase period. The 2000 ESPP administrator may allow participants to contribute up to 15.0% of their eligible compensation to purchase stock under the 2000 ESPP. Our Board of Directors or a committee of our Board of Directors administers the 2000 ESPP. The total amount of shares originally available for purchase under the 2000 ESPP was 1,505,795, of which 136,222 shares had been purchased.

2010 Plan. The 2010 Plan is administered by the Compensation Committee of the Board. Our employees, directors, and consultants are eligible to receive awards under the 2010 Plan. The 2010 Plan permits the granting of a variety of awards, including stock options, share appreciation rights, restricted shares, restricted share units, and unrestricted shares, deferred share units, performance and cash-settled awards, and dividend equivalent rights. We are authorized to issue up to 1,322,983 shares of common stock, par value \$0.001 per share under the 2010 Plan, subject to adjustment as provided in the 2010 Plan. At December 31, 2010, there were 203,000 shares of stock options that remain outstanding under the 2010 Plan.

The number of shares of our common stock to be issued upon exercise of outstanding stock options, the weighted-average exercise price of outstanding stock options and the number of shares available for future stock option grants and stock awards under equity compensation plans as of December 31, 2010, were as follows:

<u>Plan Category</u>	<u>Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights</u>	<u>Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights</u>	<u>Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Shares Reflected in First Column)</u>
Equity compensation plans approved by security holders	849,485 ⁽¹⁾	\$16.13 ⁽²⁾	1,013,983 ⁽³⁾
Equity compensation plans not approved by security holders	—	—	—
Total	<u>849,485</u>	\$16.13	<u>1,013,983</u>

(1) Includes outstanding stock options for 646,485 shares of our common stock under the 2000 Plan and 203,000 shares of our common stock under the 2010 Plan.

- (2) Includes the weighted average stock price for outstanding stock options of \$14.62 under the 2000 Plan and \$20.93 for the 2010 Plan.
- (3) Includes 1,013,983 shares of our common stock for the 2010 Plan. No future awards shall occur under the 2000 Plan or the 2000 ESPP.

Performance Graph

Pursuant to SEC Release No. 333-8876 and Instructions to Item 201(e)(6) of Regulation S-K, information is not required.

ITEM 6. SELECTED FINANCIAL DATA

The selected consolidated financial data presented below for the fiscal years ended December 31, 2010, 2009, 2008, 2007 and 2006 are derived from audited financial statements. The data set forth below should be read in conjunction with Management's Discussion and Analysis of Financial Condition and Results of Operations and our financial statements and related notes thereto appearing elsewhere in this Annual Report on Form 10-K. On March 30, 2009, we filed a voluntary petition for relief under the Bankruptcy Code in the Bankruptcy Court. We operated our business and managed our properties as debtors in possession while under the jurisdiction of the Bankruptcy Court and in accordance with the applicable provisions of the Bankruptcy Code and orders of the Bankruptcy Court. On January 22, 2010, we emerged from bankruptcy under the Bankruptcy Code. The selected data in this section are not intended to replace our financial statements.

**For the year ended December 31,
(In thousands, except per share data)
Consolidated Statements of Operations Data:**

	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>
Revenue:					
Product	\$ 308	\$ —	\$ 10	\$ —	\$ 11,292
License	867	—	—	—	—
Service	—	—	114	44	6,923
Total revenue ⁽¹⁾	<u>1,175</u>	<u>—</u>	<u>124</u>	<u>44</u>	<u>18,215</u>
Cost of revenue:					
Product	88	—	4	—	5,818
Service	—	—	20	28	3,520
Total cost of revenue ⁽²⁾	<u>88</u>	<u>—</u>	<u>24</u>	<u>28</u>	<u>9,338</u>
Gross profit	<u>1,087</u>	<u>—</u>	<u>100</u>	<u>16</u>	<u>8,877</u>
Operating expenses:					
Research and development	3,848	2,346	5,289	8,321	11,474
Sales and marketing	2,857	455	2,019	2,067	12,568
General and administrative	8,984	2,562	7,309	10,858	10,661
Total operating expenses	<u>15,689</u>	<u>5,363</u>	<u>14,617</u>	<u>21,246</u>	<u>34,703</u>
Gain on sale of instrument business ⁽³⁾	—	—	—	1,610	6,929
Loss from operations ⁽⁴⁾	(14,602)	(5,363)	(14,517)	(19,620)	(18,897)
Loss on extinguishment of debt ⁽⁵⁾	—	—	—	—	(1,481)
Interest income	40	28	399	734	843
Interest expense	(491)	(1,691)	(2,035)	(2,302)	(2,254)
Loss on investments in auction rate securities ⁽⁶⁾	58	—	(2,176)	—	—
Change in fair value and exercise of warrants, net ⁽⁷⁾	4,353	(12,106)	—	—	—
Debt conversion costs	(141)	(819)	—	—	—
Reorganization items ⁽⁸⁾	(1,677)	(2,066)	—	—	—
Reorganization items-related party incentive plan ⁽⁹⁾	(6,932)	—	—	—	—
Other income (expense), net	358	(20)	(41)	69	(125)
Loss before income taxes	<u>(19,034)</u>	<u>(22,037)</u>	<u>(18,370)</u>	<u>(21,119)</u>	<u>(21,914)</u>
Income tax benefit (expense)	—	(11)	40	(163)	(152)
Net loss	<u>\$(19,034)</u>	<u>\$(22,048)</u>	<u>\$(18,330)</u>	<u>\$(21,282)</u>	<u>\$(22,066)</u>
Net loss per share - basic and diluted	<u>\$ (1.83)</u>	<u>\$ (3.31)</u>	<u>\$ (2.87)</u>	<u>\$ (4.47)</u>	<u>\$ (6.05)</u>
Shares used to compute basic and diluted net loss per common share	<u>10,405</u>	<u>6,662</u>	<u>6,382</u>	<u>4,765</u>	<u>3,647</u>

As of December 31,
(In thousands)

Consolidated Balance Sheet Data:

	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>
Cash and cash equivalents ⁽¹⁰⁾	\$22,914	\$ 3,440	\$ 2,464	\$ 7,617	\$17,711
Investment in securities	—	—	—	8,875	—
Working capital (deficit)	13,726	(636)	(3,727)	8,534	12,994
Total assets	24,035	4,609	3,858	24,053	23,016
Long-term debt and capital lease obligations, including current portion	12,000	17,765	28,878	28,667	25,511
Total stockholders' equity (deficit)	4,616	(27,317)	(29,068)	(11,462)	(9,901)

- (1) The decrease in revenue for the year ended December 31, 2007 compared to the same period in the prior year was due to our sale of the assets and liabilities of our protein research products and collaborative services business to Bio-Rad Laboratories, Inc. We did not begin to generate revenue from diagnostic products and related licensing until the year ended December 31, 2010.
- (2) The decrease in cost of revenue for the year ended December 31, 2007 compared to the same period in the prior year was due to our sale of the assets and liabilities of our protein research products and collaborative services business to Bio-Rad Laboratories, Inc. in November 2006 in order to concentrate our resources on developing clinical protein biomarker diagnostic products and services. The decrease in cost of revenue was consistent with the decrease in revenue for the same period.
- (3) The gain on sale of instrument business for the year ended December 31, 2006 and 2007 was due to our sale of the assets and liabilities of our protein research products and collaborative services business to Bio-Rad Laboratories, Inc. in November 2006.
- (4) The decrease in loss from operations from \$14,517 for the year ended December 31, 2008 to \$5,363 for the year ended December 31, 2009 was due primarily to the bankruptcy filing in March 2009 and the subsequent curtailment of operations and expenditures while under bankruptcy protection.
- (5) The loss on extinguishment of debt of \$1,481 for the year ended December 31, 2006 represents the expensing of \$868 of unamortized debt discount and \$613 of unamortized prepaid offering costs related to the exchange of \$27,500 of our 4% convertible senior notes due September 1, 2008 for \$16,500 of 7% convertible notes and \$11,000 in cash.
- (6) Loss on investment in auction rate securities was due to an other-than-temporary charge on investments available-for-sale of \$2,176 for the year ended December 31, 2008.
- (7) Effective January 1, 2009, the adoption of the new accounting guidance resulted in the reclassification of certain outstanding warrants from stockholders' deficit to liability, which further required remeasurement at the end of each reporting period. This resulted in the change in fair value and exercise of warrants for the years ended December 31, 2009 and 2010.
- (8) Reorganization items include professional advisory fees and other costs directly associated with our Chapter 11 bankruptcy activities.
- (9) Reorganization items for the Debtor's Incentive Plan for the year ended December 31, 2010 amounted to \$6,932. We paid \$5,000 in cash and accrued \$1,932 for the value of the vested portions of restricted stock under the Debtor's Incentive Plan prior to emerging from bankruptcy.
- (10) The increase in cash and cash equivalents from \$3,440 at December 31, 2009 to \$22,914 at December 31, 2010 was due to a private placement sale of 2,327,869 shares of our common stock for net proceeds of \$42,800 in January 2010 as part of emerging from bankruptcy partially offset by operating and other expenses incurred as well as the cash exercise of certain outstanding warrants.

ITEM 7. MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

You should read the following discussion and analysis in conjunction with our Consolidated Financial Statements and related Notes thereto, included on pages F-1 through F-37 of this Annual Report on Form 10-K, and “Risk Factors”, which are discussed in Item 1A. The statements below contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act. See “Forward-Looking Statements” on page i.

Overview

Vermillion was originally incorporated in California on December 9, 1993, under the name Abiotic Systems. In March 1995, Abiotic Systems changed its corporate name to CIPHERGEN Biosystems, Inc., and subsequently on June 21, 2000, it reincorporated in Delaware. Under the name CIPHERGEN Biosystems, Inc., we had our initial public offering on September 28, 2000. On November 13, 2006, we sold the assets and liabilities of our protein research products and collaborative services business to Bio-Rad, which allowed us to focus on the development of our diagnostics tests. On August 21, 2007, CIPHERGEN Biosystems, Inc. changed its corporate name to Vermillion, Inc. Effective at the close of business on March 3, 2008, we effected a 1 for 10 reverse stock split of our common stock. Accordingly, all share and per share amounts were adjusted to reflect the impact of the 1 for 10 reverse stock split in this Annual Report on Form 10-K.

We are dedicated to the discovery, development and commercialization of novel high-value diagnostic tests that help physicians diagnose, treat and improve outcomes for patients. Our tests are intended to help guide decisions regarding patient treatment, which may include decisions to refer patients to specialists, to perform additional testing, or to assist in the selection of therapy. A distinctive feature of our approach is to combine multiple markers into a single, reportable index score that has higher diagnostic accuracy than its constituents. We concentrate our development of novel diagnostic tests in the fields of oncology, hematology, cardiology and women’s health, with the initial focus on ovarian cancer. We also intend to address clinical questions related to early disease detection, treatment response, monitoring of disease progression, prognosis and others through collaborations with leading academic and research institutions.

Management (“we”, “us” or “our”) concentrates its development of novel diagnostic tests in the fields of oncology, hematology, cardiology and women’s health, with the initial focus on ovarian cancer. We also intend to address clinical questions related to early disease detection, treatment response, monitoring of disease progression, prognosis and others through collaborations with leading academic and research institutions such as our strategic alliance agreement with Quest Diagnostics.

On March 30, 2009, we filed for relief under the Chapter 11 of the Bankruptcy Code. We emerged from bankruptcy protection on January 22, 2010, pursuant to the terms of a January 5, 2010 order entered by the Bankruptcy court approving our Second Amended Plan of Reorganization under Chapter 11.

Our lead product, OVA1, was cleared by the FDA on September 11, 2009. OVA1 addresses a clear unmet clinical need, namely the pre-surgical identification of women who are at high risk of having a malignant ovarian tumor. Numerous studies have documented the benefit of referral of these women to gynecologic oncologists for their initial surgery. Prior to the clearance of OVA1, no blood test had been cleared by the FDA for physicians to use in the pre-surgical management of ovarian adnexal masses. OVA1 is a qualitative serum test that utilizes five well-established biomarkers and proprietary FDA-cleared software to determine the likelihood of malignancy in women over age 18, with a pelvic mass for whom surgery is planned. OVA1 was developed through large pre-clinical studies in collaboration with numerous academic medical centers encompassing over 2,500 clinical samples. OVA1 was fully validated in a prospective multi-center clinical trial encompassing 27 sites reflective of the diverse nature of the clinical centers at which ovarian adnexal masses are evaluated. The results of the clinical trial demonstrated that among non-gynecologic oncologists, OVA1, in conjunction with clinical

evaluation, was able to identify 91.7% of the malignant ovarian tumors and to rule out malignancy NPV with 93.2% certainty. Recently, data were presented at the 2010 International Gynecologic Cancer Society Meeting demonstrating the high sensitivity of OVA1 for epithelial ovarian cancers; overall OVA1 detected 95/96 epithelial ovarian cancer cases for a sensitivity of 99.0%, including 40/41 stage I and stage II epithelial ovarian cancers, for an overall sensitivity of 97.6% for early stage epithelial ovarian cancers, as compared to 65.9% for CA125 using the ACOG cutoffs. The improvement in sensitivity was even greater among premenopausal women; for OVA1, sensitivity for early stage epithelial ovarian cancer was 92.9% and for CA125, sensitivity was 35.7%. Overall, OVA1 detected 76% of malignancies missed by CA125, including all advanced stage malignancies. OVA1 is not indicated for use as a screening or stand-alone diagnostic assay.

In addition to OVA1, we have development programs in other clinical aspects of ovarian cancer as well as in peripheral arterial disease. In the field of peripheral arterial disease, we have identified candidate biomarkers that may help to identify individuals at high risk for a decreased ankle-brachial index score, which is indicative of the likely presence of PAD. We have initiated an intended-use study to validate a multi-marker algorithm for the assessment of individuals at risk for PAD.

Current and former academic and research institutions that we have or have had collaborations with include the Johns Hopkins University School of Medicine; the University of Texas M.D. Anderson Cancer Center; University College London; the University of Texas Medical Branch; the Katholieke Universiteit Leuven; Clinic of Gynecology and Clinic of Oncology, Rigshospitalet, Copenhagen University Hospital; the Ohio State University Research Foundation; Stanford University; and the University of Kentucky.

OVA1 is currently being offered by Quest Diagnostics. On March 11, 2010, the Medicare contractor Highmark Medicare Services announced that it would cover OVA1 in its reimbursement program. Under the terms of our strategic alliance agreement with Quest Diagnostics, as amended, Quest Diagnostics is required to pay us a fixed payment of \$50 per OVA1 performed, as well as 33% of its “gross margin” from revenue from performing OVA1, as that term is defined in the strategic alliance agreement as amended. Quest Diagnostics is the exclusive clinical laboratory provider of OVA1 in its exclusive territory, which includes the US, Mexico, Britain and India through September 11, 2014. OVA1 was CE marked in September 2010, a requirement for marketing the test in the European Union. Quest Diagnostics has the right to extend the exclusivity period for an additional year beyond September 11, 2014 on the same terms and conditions. An estimated 6,155 OVA1s have been performed from the launch on March 9, 2010 through December 31, 2010.

On February 3, 2011, we received an award of two grants, approved in November 2010, for the aggregate sum of \$489,000 under the Internal Revenue Service Qualifying Therapeutic Discovery Projects Grant Program for our OVA2 and PAD programs. The grant relates to 2010 expenditures and was awarded to therapeutic or diagnostic discovery projects that show a reasonable potential to result in new therapies or diagnostic tests that address areas of unmet medical need or that prevent, detect or treat chronic or acute diseases and conditions.

On February 18, 2011 we completed a follow-on public offering sale of 4,000,000 shares of our common stock in an underwritten public offering at a price of \$5.45 per share. We expect net proceeds of the offering will be approximately \$20,200,000 after deducting underwriting discounts and expected offering expenses. Roth Capital Partners acted as the sole manager of the offering. The underwriter has been granted a 30-day option to purchase up to 500,000 additional shares from the Company and 100,000 shares from a selling stockholder to cover over-allotments, if any.

Critical Accounting Policies and Estimates

The notes to the consolidated financial statements contain a summary of the Company’s significant accounting policies that are presented in Part II Item 8, “Financial Statements and Supplementary Data”, of this Annual Report on Form 10-K. We believe that it is important to have an understanding of certain policies, along with the related estimates that we are required to make in recording the financial transactions of the Company, in

order to have a complete picture of the Company's financial condition. In addition, in arriving at these estimates, we are required to make complex and subjective judgments, many of which include a high degree of uncertainty. The following is a discussion of these critical accounting policies and significant estimates related to these policies.

Fair Value of Investments

We classify all of our marketable securities as available-for-sale. We carry these investments at fair value, based upon the levels of inputs described below. The amortized cost of securities in this category is adjusted for amortization of premiums and accretions of discounts to maturity. Such amortization is included in interest income. Realized gains and losses are recorded in our statement of operations. If we believe that an other-than-temporary decline exists, it is our policy to record a write-down to reduce the investments to fair value and record the related charge as a loss on investments in auction rate securities.

Accounting Standards Codification ("ASC" or "Codification") 820 "Fair Value and Measurements" defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. ASC 820 also establishes a fair value hierarchy which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The standard describes three levels of inputs that may be used to measure fair value:

Level 1 - Quoted prices in active markets for identical assets or liabilities.

Level 2 - Observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities. Our short-term investments primarily utilize broker quotes in a non-active market for valuation of these securities.

Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

If a financial instrument uses inputs that fall in different levels of the hierarchy, the instrument will be categorized based upon the lowest level of input that is significant to the fair value calculation. Our financial assets measured at fair value on a recurring basis include securities available for sale. Securities available for sale include money market funds at December 31, 2010 and auction rate securities through June 2010 in private placements of credit linked notes.

Fair Value of Warrants

Prior to January 1, 2009, common stock warrants were recorded in stockholders equity in accordance with ASC 815, "Derivatives and Hedging" and ASC 825, "Financial instruments." However in June 2008, the Financial Accounting Standards Board ("FASB") issued new guidance now codified in ASC 815 that clarifies the determination of whether an instrument (or an embedded feature) is indexed to an entity's own stock, which would qualify for classification as a liability. The new guidance was effective for financial statements issued for fiscal years beginning after December 15, 2008. The adoption of the new guidance on January 1, 2009, resulted in the reclassification of certain of our outstanding warrants from stockholders' deficit to liability and a cumulative effect of change in accounting principle on our accumulated deficit. In addition, the stock warrants are required to be fair valued at each reporting period, with the changes in fair value recognized in our consolidated statement of operations. We fair value the warrants using a Black Scholes valuation model. Since the outstanding common stock warrants are fair valued at the end of each reporting period, any change in the underlying assumptions to the Black Scholes valuation model, including the volatility and price of our common stock, may have a significant impact on our consolidated financial statements.

Research and Development Costs

Research and development costs are expensed as incurred. Research and development costs consist primarily of payroll and related costs, materials and supplies used in the development of new products, and fees paid to third parties that conduct certain research and development activities on behalf of the Company. Software development costs incurred in the research and development of new products are expensed as incurred until technological feasibility is established.

Stock-Based Compensation

We account for stock options and stock purchase rights related to our 2010 Stock Incentive Plan (the “2010 Plan”), 2000 Stock Plan (the “2000 Plan”) and 2000 Employee Stock Purchase Plan (the “2000 ESPP”) under the provisions of ASC 718 which requires the recognition of the fair value of stock-based compensation. The fair value of stock options and ESPP shares was estimated using a Black-Scholes option valuation model. This model requires the input of subjective assumptions in implementing ASC 718 including expected stock price volatility, expected life and estimated forfeitures of each award. The fair value of equity-based awards is amortized over the vesting period of the award, and we have elected to use the straight-line method of amortization. Due to the limited amount of historical data available to us, particularly with respect to stock-price volatility, employee exercise patterns and forfeitures, actual results could differ from our assumptions.

We account for equity instruments issued to non-employees in accordance with the provisions of ASC 718 and ASC 505, “Equity.” As a result, the non-cash charge to operations for non-employee options with vesting or other performance criteria is affected each reporting period by changes in the estimated fair value of our common stock. The two factors which most affect these changes are the price of the common stock underlying stock options for which stock-based compensation is recorded and the volatility of the stock price. If our estimates of the fair value of these equity instruments change, it would have the effect of changing compensation expenses.

Contingencies

We account for contingencies in accordance with ASC 450 Contingencies (“ASC 450”). ASC 450 requires that an estimated loss from a loss contingency shall be accrued when information available prior to issuance of the financial statements indicates that it is probable that an asset has been impaired or a liability has been incurred at the date of the financial statements and when the amount of the loss can be reasonably estimated. Accounting for contingencies such as legal and contract dispute matters requires us to use our judgment. We believe that our accruals for these matters are adequate. Nevertheless, the actual loss from a loss contingency might differ from our estimates.

Income Taxes

Our income tax policy records the estimated future tax effects of temporary differences between the tax basis of assets and liabilities and amounts reported in the accompanying balance sheets, as well as operating loss and tax credit carry forwards. We have recorded a full valuation allowance to reduce our deferred tax assets, as based on available objective evidence; it is more likely than not that the deferred tax assets will not be realized. In the event that we were to determine that we would be able to realize our deferred tax assets in the future, an adjustment to the deferred tax assets would increase net income in the period such determination was made.

Recently Adopted Accounting Pronouncements

In April 2010, the FASB amended the authoritative guidance addressing accounting for arrangements in which a vendor satisfies its performance obligations over time, with all or a portion of the consideration contingent on future events, referred to as “milestones.” The scope of the new guidance is limited to milestones in arrangements that involve research or development activities, such as achieving a specific result from the

research or development efforts. The amendment provides guidance on the criteria that should be met for determining whether the milestone method of revenue recognition is appropriate. A vendor can recognize consideration that is contingent upon achievement of a milestone in its entirety as revenue in the period in which the milestone is achieved only if the milestone meets all criteria to be considered substantive. A vendor that is affected by the amendment is required to provide a description of the overall arrangement, a description of each milestone and related contingent consideration, a determination of whether each milestone is considered substantive, the factors that the entity considered in determining whether the milestone or milestones are substantive, and the amount of consideration recognized during the period for the milestone or milestones. This amendment will be effective for our interim period ending March 31, 2011. The amendment is not expected to have a material impact on our financial position, results of operations or cash flows.

In September 2009, the FASB issued ASU 2009-13, *Multiple Deliverable Revenue Arrangements* (ASU 2009-13), which amended the accounting standards for multiple element arrangements to:

- provide updated guidance on whether multiple deliverables exist, how the elements in an arrangement should be separated and how the consideration should be allocated;
- require an entity to allocate revenue in an arrangement using estimated selling prices (ESP) of each element if a vendor does not have vendor-specific objective evidence of selling price (VSOE) or third-party evidence of selling price (TPE); and
- eliminate the use of the residual method and require a vendor to allocate revenue using the relative selling price method.

ASU 2009-13 is effective for fiscal years beginning after June 15, 2010, which for the Company will be January 1, 2011, with early application permitted. The adoption of ASU 2009-13 is not expected to have a significant impact on the Company's consolidated financial statements.

In February 2010, the SEC issued a policy statement and staff work plan regarding the potential use by United States issuers of financial statements prepared in accordance with International Financial Reporting Standards ("IFRS"). IFRS is a comprehensive series of accounting standards published by the International Accounting Standards Board. Under the proposed timeline set forth by the SEC, we could be required in the future to prepare financial statements in accordance with IFRS, and the SEC is expected to make a determination in 2011 regarding the mandatory adoption of IFRS. We are currently assessing the impact that this potential change would have on our consolidated financial statements, and will continue to monitor the development of the potential implementation of IFRS.

In January 2010, the FASB issued Accounting Standards Update ("ASU") No. 2010-6, *Fair Value Measurements and Disclosures*, to amend the disclosure requirements related to recurring and nonrecurring fair value measurements. ASU 2010-6 requires new disclosures on the transfers of assets and liabilities between Level 1 (quoted prices in active market for identical assets or liabilities) and Level 2 (significant other observable inputs) of the fair value measurement hierarchy, including the reasons and the timing of the transfers. Additionally, this guidance requires a roll forward of activities on purchases, sales, issuance, and settlements of the assets and liabilities measured using significant unobservable inputs (Level 3 fair value measurements). ASU 2010-6 is effective for the Company on January 1, 2010, except for the disclosure on the roll forward activities for Level 3 fair value measurements, which will become effective for the Company on January 1, 2011. Other than requiring additional disclosures, adoption of this new guidance did not have a material impact on our financial statements.

Results of Operations – Year Ended December 31, 2010 as compared to Year Ended December 31, 2009

The selected summary financial and operating data of Vermillion for the years ended December 31, 2010 and 2009 were as follows:

(dollars in thousands)	Year Ended December 31,		Increase (Decrease)	
	2010	2009	Amount	%
Revenue:				
Product	\$ 308	\$ —	\$ 308	—
License	867	—	867	—
Total revenue	1,175	—	1,175	—
Cost of revenue:				
Product	88	—	88	—
Total cost of revenue	88	—	88	—
Gross profit	1,087	—	1,087	—
Operating expenses:				
Research and development	3,848	2,346	1,502	64
Sales and marketing	2,857	455	2,402	528
General and administrative	8,984	2,562	6,422	251
Total operating expenses	15,689	5,363	10,326	193
Loss from operations	(14,602)	(5,363)	(9,239)	172
Interest income	40	28	12	43
Interest expense	(491)	(1,691)	1,200	(71)
Gain on investments in auction rate securities	58	—	58	—
Change in fair value and exercise of warrants, net	4,353	(12,106)	16,459	(136)
Debt conversion costs	(141)	(819)	678	(83)
Reorganization items	(1,677)	(2,066)	389	(19)
Reorganization items – related party incentive plan	(6,932)	—	(6,932)	—
Other income (expense), net	358	(20)	378	(1,890)
Loss before income taxes	(19,034)	(22,037)	3,003	(14)
Income tax benefit (expense)	—	(11)	11	—
Net loss	<u>\$(19,034)</u>	<u>\$(22,048)</u>	<u>\$ 3,014</u>	<u>(14)</u>

Product Revenue. Product revenue was \$308,000 for the year ended December 31, 2010. We recognized product revenue for the year ended December 31, 2010 for sales of OVA1 through Quest Diagnostics. OVA1 was launched on March 9, 2010 and thus there was no product revenue for the year ended December 31, 2009.

License Revenue. License revenue was \$867,000 for the year ended December 31, 2010. Under the terms of our secured line of credit with Quest Diagnostics, \$3,000,000 principal was forgiven upon the achievement of FDA approval for OVA1. This amount is recognized as license revenue over the period of sales exclusivity Quest Diagnostics received beginning on the OVA1 commercialization date of March 9, 2010. Thus, there was no license revenue for the year ended December 31, 2009.

Cost of Product Revenue. Cost of product revenue includes royalties on net sales paid to JHU, as well as sample acquisition and lot qualification costs related to the testing of reagent lots for the assays included in OVA1 to ensure they meet the specifications required for inclusion. Product cost of sales was \$88,000 for the year ended December 31, 2010. There was no cost of product revenue for the year ended December 31, 2009.

Research and Development Expenses. Research and development expenses represent costs incurred to develop our technology and carry out clinical studies, and include personnel-related expenses, regulatory costs,

reagents and supplies used in research and development laboratory work, infrastructure expenses, including allocated facility occupancy and information technology costs, contract services and other outside costs. Research and development expenses also include costs related to activities performed under contracts with our collaborators and strategic partners. Research and development expenses increased by \$1,502,000, or 64%, for the year ended December 31, 2010 compared to the same period in 2009. This increase included a \$774,000 increase in stock-based compensation, a \$454,000 increase in personnel-related expenses due to the increased headcount after the emergence from bankruptcy under the Bankruptcy Code, and a \$137,000 increase in collaboration and clinical trial costs due to our development in other clinical aspects of ovarian cancer as well as our intended-use study for PAD. These items were partially offset by a \$206,000 decrease in depreciation expense. Stock-based compensation expense increased to \$992,000 for the year ended December 31, 2010 compared to \$219,000 for the same period in 2009.

Sales and Marketing Expenses. Our sales and marketing expenses consist primarily of personnel-related expenses, education and promotional expenses, and infrastructure expenses, including allocated facility occupancy and information technology costs. These expenses include the costs of educating physicians, laboratory personnel and other healthcare professionals regarding OVA1. Sales and marketing expenses also include the costs of sponsoring continuing medical education, medical meeting participation and dissemination of scientific and health economic publications. Sales and marketing expenses increased by \$2,402,000, or 528%, for the year ended December 31, 2010 compared to the same period in 2009. The increase was primarily due to a \$1,492,000 increase in personnel and personnel-related expenses, reflecting the addition of fifteen sales and marketing employees in the year ended December 31, 2010, and a \$540,000 increase in marketing expenses related to the commercialization and launch of OVA1.

General and Administrative Expenses. General and administrative expenses consist primarily of personnel-related expenses, professional fees and other costs, including legal, finance and accounting expenses, and other infrastructure expenses, including allocated facility occupancy and information technology costs. General and administrative expenses increased by \$6,422,000, or 251%, for the year ended December 31, 2010 compared to the same period in 2009. The increase was primarily due to a \$1,967,000 increase in legal, audit and tax related services and a \$573,000 increase in personnel-related expenses. Personnel, consulting, legal, audit and tax related expenses increased due to significant efforts to bring current all periodic reports required by the Exchange Act upon our emergence from bankruptcy. Stock-based compensation expense was \$831,000 and \$328,000 for the years ended December 31, 2010 and 2009, respectively. Under the terms of the Debtor's Incentive Plan, we also incurred \$3,037,000 as related party incentive expenses during the year ended December 31, 2010 for the value of the vested portions of restricted stock issued.

Interest Income. Interest income increased by \$12,000, or 43%, for the year ended December 31, 2010, compared to the same period in 2009.

Interest Expense. Interest expense decreased by \$1,200,000, or 71%, for the year ended December 31, 2010, compared to the same period in 2009. Interest expense in both periods consisted largely of interest related to our convertible senior notes and related party long-term debt; however, total debt outstanding at December 31, 2010 was \$12,000,000 compared to \$17,765,000 at December 31, 2009 and our rate of interest was reduced in 2010 compared to 2009.

Gain on Investment in Auction Rate Securities. Gain on investment in auction rate securities totaled \$58,000 for the year ended December 31, 2010 compared to none in the same period for 2009. The auction rate securities were sold in July 2010, eliminating our position in the investment.

Change in Fair Value and Gain from Exercise of Warrants, Net. The change in fair value and gain from exercise of warrants of \$4,353,000 for the year ended December 31, 2010 was primarily due to the change in our stock price during the year then ended. Effective January 1, 2009, the adoption of the new accounting guidance resulted in the reclassification of certain outstanding common stock warrants from stockholders' deficit to liability, which further required re-measurement at the end of each reporting period.

Debt Conversion Costs. Debt conversion costs for the year ended December 31, 2010 totaled \$141,000 compared to \$819,000 for the same period in 2009. During the year ended December 31, 2009, we entered into exchange agreements with the 4.50% and 7.00% Note holders that included a more favorable conversion rate compared to the original conversion rates under the terms of the 4.50% and 7.00% Notes.

Reorganization Items. Reorganization items for the year ended December 31, 2010 totaled \$1,677,000 compared to \$2,066,000 for the same period in 2009. Reorganization items include professional advisory fees and other costs directly associated with our Chapter 11 bankruptcy activities.

Reorganization Items - Related Party Incentive Plan. Reorganization items for the year ended December 31, 2010 amounted to \$6,932,000. We paid \$5,000,000 in cash and accrued \$1,932,000 for the value of the vested portions of restricted stock under the Incentive Plan prior to us emerging from bankruptcy under the Bankruptcy Code.

Other Income (Expense), Net. Net other income was \$358,000 for the year ended December 31, 2010 compared to \$20,000 of expense for the same period in 2009. Other income for the year ended December 31, 2010 included an award of two grants for the aggregate sum of \$489,000 under the Internal Revenue Service Qualifying Therapeutic Discovery Projects Grant Program for the OVA2 and PAD programs.

Income Tax Benefit (Expense). There was no income tax benefit or expense for the year ended December 31, 2010 compared to income tax expense of \$11,000 for the same period in 2009. Income tax expense in 2009 was due to foreign income taxes.

Results of Operations - Year Ended December 31, 2009 as compared to Year Ended December 31, 2008

The selected summary financial and operating data of Vermillion for the years ended December 31, 2009 and 2008 were as follows:

(dollars in thousands)	Year Ended December 31,		Increase (Decrease)	
	2009	2008	Amount	%
Revenue:				
Product	\$ —	\$ 10	\$ (10)	(100)
Service	—	114	(114)	(100)
Total revenue	—	124	(124)	(100)
Cost of revenue:				
Product	—	4	(4)	(100)
Service	—	20	(20)	(100)
Total cost of revenue	—	24	(24)	(100)
Gross profit	—	100	(100)	(100)
Operating expenses:				
Research and development	2,346	5,289	(2,943)	(56)
Sales and marketing	455	2,019	(1,564)	(77)
General and administrative	2,562	7,309	(4,747)	(65)
Total operating expenses	5,363	14,617	(9,254)	(63)
Loss from operations	(5,363)	(14,517)	9,154	(63)
Interest income	28	399	(371)	(93)
Interest expense	(1,691)	(2,035)	344	(17)
Loss on investments in auction rate securities	—	(2,176)	2,176	100
Change in fair value and exercise of warrants, net	(12,106)	—	(12,106)	—
Debt conversion costs	(819)	—	(819)	—
Reorganization items	(2,066)	—	(2,066)	—
Other income (expense), net	(20)	(41)	21	(51)
Loss before income taxes	(22,037)	(18,370)	(3,667)	20
Income tax benefit (expense)	(11)	40	(51)	(128)
Net loss	<u>\$(22,048)</u>	<u>\$(18,330)</u>	<u>\$ (3,718)</u>	<u>20</u>

Product Revenue. There was no product revenue for the year ended December 31, 2009. Product revenue of \$10,000 was generated from the sales of thrombotic thrombocytopenic purpura (“TTP”) test component material to The Ohio State University Research Foundation (“OSU”) for the year ended December 31, 2008.

Service Revenue. There was no service revenue for the year ended December 31, 2009. Service revenue for the year ended December 31, 2008, consisted of \$66,000 received from a consortium supported by the European Union for advanced molecular diagnostics research performed, and \$48,000 from support services provided to a customer in accordance with a consortium agreement, which expired on March 31, 2008.

Cost of Product Revenue. There was no cost of product revenue for the year ended December 31, 2009. Cost of product revenue related to sales of TTP test component material to OSU was \$4,000 for the year ended December 31, 2008.

Cost of Service Revenue. There was no cost of service revenue for the year ended December 31, 2009. Cost of service revenue for the year ended December 31, 2008 were costs associated with support services provided to a customer in accordance with a consortium agreement, which expired on March 31, 2008.

Research and Development Expenses. Research and development expenses decreased by \$2,943,000, or 56%, to \$2,346,000 for the year ended December 31, 2009, from \$5,289,000 for the same period in 2008. This decrease was primarily due to the reduction in employee headcount to one at December 31, 2009, from four at December 31, 2008, and, correspondingly, salaries, payroll taxes, employee benefits and stock-based compensation decreased by \$685,000, and travel expenses decreased by \$64,000. Additionally, collaboration costs decreased by \$621,000 due to the completion of the whole blood specimen collection for OVA1 510(k) pre-market notification application by our clinical research organization; other professional services decreased by \$260,000; materials and supplies used in the development of new products decreased by \$230,000 due to the completion of OVA1 clinical trials; depreciation and loss on disposal of assets decreased by \$592,000; and occupancy costs decreased by \$448,000 primarily due to the reduction of rent expense related to our move into a smaller principal facility on July 1, 2008. Stock-based compensation expense included in research and development expenses was \$219,000 and \$120,000 for the years ended December 31, 2009 and 2008, respectively.

Sales and Marketing Expenses. Sales and marketing expenses decreased by \$1,564,000, or 77%, to \$455,000 for the year ended December 31, 2009, from \$2,019,000 for the same period in 2008. This decrease was primarily due to lower occupancy costs as a result of the reduction of rent expense related to our move into a smaller principal facility on July 1, 2008, by \$418,000; payroll and related expenses by \$697,000; outside services by \$138,000; and travel expenses by \$160,000. Stock-based compensation expense included in sales and marketing expenses was \$24,000 and \$93,000 for the years ended December 31, 2009 and 2008, respectively.

General and Administrative Expenses. General and administrative expenses decreased by \$4,747,000, or 65%, to \$2,562,000 for the year ended December 31, 2009, from \$7,309,000 for the same period in 2008. The decrease was primarily due to \$408,000 in payroll and related expenses; \$1,212,000 in legal services, \$917,000 in other professional services; \$793,000 in accounting and auditing fees; \$114,000 in travel expenses; \$922,000 in contingency relating to a contract dispute; \$243,000 in depreciation and related expenses, and \$218,000 in occupancy costs. The decrease was offset by an accrual of \$696,000 for related party severances, and an increase in other operating expenses of \$117,000. Stock-based compensation expense included in general and administrative expenses was \$328,000 and \$423,000 for the years ended December 31, 2009 and 2008, respectively.

Interest Income and Expense. Interest income was \$28,000 for the year ended December 31, 2009, compared to \$399,000 for the same period in 2008. Interest income decreased primarily due to lower interest yields and the reduction of investments available-for-sale and money market funds. Interest expense was \$1,691,000 for the year ended December 31, 2009, compared to \$2,035,000 for the same period in 2008. Interest expense in both periods consisted largely of interest related to our convertible senior notes and borrowings from Quest Diagnostics. Interest expense included the amortization of the beneficial conversion feature associated with the 4.50% convertible senior notes and underwriter fees associated with the 7.00% convertible senior notes, which amounted to \$150,000 and \$211,000 for the years ended December 31, 2009 and 2008, respectively.

Loss on Investment in Auction Rate Securities. There were no losses related to investments available-for-sale for the year ended December 31, 2009. Loss on investment in auction rate securities was due to an other-than-temporary charge on investments available-for-sale of \$2,176,000 for the year ended December 31, 2008.

Change in Fair Value and Gain from Exercise of Warrants, Net. The change in fair value of warrants was \$20,062,000 for the year ended December 31, 2009 as a result of warrant revaluations. Warrant exercise gain was \$7,956,000 for the year ended December 31, 2009. Effective January 1, 2009, the adoption of the new accounting guidance resulted in the reclassification of certain outstanding warrants from stockholders' deficit to liability, which further required re-measurement at the end of each reporting period.

Debt Conversion Costs. Debt conversion costs were \$819,000 for the year ended December 31, 2009. During the year ended December 31, 2009, we entered into exchange agreements with the 4.50% and 7.00% Note holders that included a more favorable conversion rate compared to the original conversion rates under the terms of the 4.50% and 7.00% Notes.

Reorganization Items. Reorganization items were \$2,066,000 for the year ended December 31, 2009. Reorganization items are expenses directly attributed to our Chapter 11 reorganization process such as advisory and professional service fees of \$1,770,000 and expenses relating to the debtor-in-possession financing of \$203,000. See Note 2 to our consolidated financial statements for a summary of these costs.

Other Income (Expense), Net. Net other expense was \$20,000 for the year ended December 31, 2009, compared to \$41,000 for the same period in 2008.

Income Tax Benefit (Expense). Income tax expenses were \$11,000 for the year ended December 31, 2009. Income taxes were a benefit of \$40,000 for the year ended December 31, 2008. The income tax benefit was due to foreign income tax refunds.

Liquidity and Capital Resources

We have experienced significant cumulative operating losses since inception and, as of December 31, 2010, had an accumulated deficit of \$298,509,000.

On March 9, 2010, we commercially launched OVA1. We will continue to expend substantial resources in the selling and marketing of OVA1, researching and developing additional key diagnostic tests, and obtaining FDA clearance and commercializing those products in addition to OVA1. We will continue to be in an accumulated deficit position unless sufficient revenues can be generated to offset expenses. We believe that our existing cash and cash equivalents will be sufficient to meet our cash requirements for at least the next twelve months. On February 18, 2011 we completed a follow-on public offering sale of 4,000,000 shares of our common stock in an underwritten public offering at a price of \$5.45 per share. We expect net proceeds of the offering will be approximately \$20,200,000 after deducting underwriting discounts and expected offering expenses.

The successful achievement of our business objectives may require additional financing and therefore, we may need to raise additional capital or incur indebtedness to continue to fund our future operations. We may seek to raise capital through a variety of sources, including:

- the public equity market;
- private equity financing;
- collaborative arrangements;
- licensing arrangements; and/or
- public or private debt.

Any additional equity financing may be dilutive to stockholders, and debt financing, if available, may involve restrictive covenants. Additional funding may not be available when needed or on terms acceptable to us. If we are unable to obtain additional capital, we may be required to delay, reduce the scope of or eliminate our sales and marketing and research and development activities or not be able to pay the convertible senior notes. Our future liquidity and capital requirements will depend upon many factors, including, among others:

- resources devoted to establish sales, marketing and distribution capabilities;
- the rate of product adoption by physicians and patients;
- our determination to acquire or invest in other products, technologies and businesses;

- the market price of our common stock as it affects the exercise of stock options and the conversion terms of our convertible debt; and
- the insurance payer community's acceptance of and reimbursement for OVA1.

Cash and cash equivalents as of December 31, 2010 and December 31, 2009, were \$22,914,000 and \$3,440,000, respectively. At December 31, 2010, working capital was \$13,726,000, and at December 31, 2009, working capital deficit was \$636,000.

Net cash used in operating activities was \$20,935,000 for the year ended December 31, 2010, resulting primarily from operating losses incurred as adjusted for a change in fair value of warrants and warrant exercises of \$4,353,000 and non-cash license revenues of \$867,000, partially offset by \$141,000 in debt conversion costs, \$114,000 depreciation and amortization, \$1,900,000 stock-based compensation expense and \$4,969,000 Debtor's Incentive Plan charges with related parties. Net cash used in operating activities also decreased by \$3,803,000 of cash provided by changes in operating assets and liabilities mainly driven by the \$3,928,000 in reorganization items.

Net cash used in operating activities was \$3,114,000 for the year ended December 31, 2009, primarily as a result of the \$22,048,000 net loss reduced by \$14,091,000 of non-cash expenses that included the net change in the fair value of warrants and warrant exercise gain of \$12,106,000; debt conversion costs of \$819,000; depreciation and amortization of \$335,000; stock-based compensation of \$571,000; and amortization of convertible senior notes discount of \$150,000. Net cash used in operating activities was offset by \$4,843,000 of cash provided by changes in operating assets and liabilities. Net cash used in operating activities was \$3,114,000 in 2009 compared to \$15,440,000 in 2008. Less cash was used in operating activities in 2009 as compared to 2008 due primarily to our Chapter 11 Bankruptcy Filing in March 2009 and subsequent curtailment of operations. Net cash used in operating activities was \$15,440,000 in 2008, primarily as a result of the \$18,330,000 net loss offset by an adjustment for the Instrument Business Sale.

Net cash provided by investing activities was \$350,000 for the year ended December 31, 2010, primarily due to the proceeds from sale of investments of \$465,000 and the maturity of a certificate of deposit pledged as collateral on a letter of credit of \$60,000 partially offset by \$180,000 purchase of property and equipment. Net cash provided by investing activities was \$42,000 for the year ended December 31, 2009, which primarily resulted from proceeds in connection with the maturity of a certificate of deposit pledged as collateral on a letter of credit. Net cash provided by investing activities of \$10,323,000 in 2008 primarily resulted from proceeds from sales of investments of \$14,458,000 partially offset by purchases of investments of \$4,100,000.

Net cash provided by financing activities was \$40,050,000 for the year ended December 31, 2010, which resulted primarily from net proceeds of \$42,782,000 in connection with our January 2010 private placement, offset by \$2,195,000 in repayments of the 4.50% Notes and \$400,000 of the debtor-in-possession financing with Quest Diagnostics. Net cash provided by financing activities was \$4,051,000 for the year ended December 31, 2009, which resulted from net proceeds of \$3,651,000 in connection with the exercise of stock warrants and debtor-in-possession financing of \$400,000 received from a related party. Net cash provided by financing activities was \$3,000 in 2008 resulting from proceeds from the purchase of common stock through the employee stock purchase plan.

Contractual Obligations

The following summarizes our contractual obligations at December 31, 2010, and the effect such obligations are expected to have on our liquidity and cash flow in future periods:

<u>(in thousands)</u>	<u>Total</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>Thereafter</u>
Loan from Quest Diagnostics Inc. ⁽¹⁾	\$ 7,000	\$ —	\$7,000	—	\$—
Interest payable on loan from Quest Diagnostics Inc. ⁽²⁾	465	263	202	—	—
Convertible senior notes	5,000	5,000	—	—	—
Interest payable on convertible senior notes ⁽²⁾	133	133	—	—	—
Noncancelable collaboration obligations ⁽³⁾	1,013	450	450	113	—
Noncancelable operating lease obligations	197	129	67	1	—
Purchase obligations	—	—	—	—	—
Total contractual obligations	<u>\$13,808</u>	<u>\$5,975</u>	<u>\$7,719</u>	<u>\$114</u>	<u>\$—</u>

(1) Principal amounts, not including interest.

(2) Based on outstanding principal balance and interest rate as of December 31, 2010.

(3) The following are non-cancelable collaboration obligations: Research collaboration agreement with the Johns Hopkins University School of Medicine; Rigshospitalet, Copenhagen University Hospital; The Ohio State University Research Foundation; and Stanford University.

Off-Balance Sheet Arrangements

As of December 31, 2010, we had no off-balance sheet arrangements that are reasonably likely to have a current or future material effect on our consolidated financial condition, results of operations, liquidity, capital expenditures or capital resources.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Pursuant to SEC Release No. 333-8876 and Item 305(e) of Regulation S-K, information is not required.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Our consolidated financial statements, including consolidated balance sheets as of December 31, 2010 and 2009, consolidated statements of operations for the years ended December 31, 2010, 2009 and 2008, consolidated statements of stockholders' equity for the years ended December 31, 2010, 2009 and 2008, consolidated statements of cash flows for the years ended December 31, 2010, 2009 and 2008 and notes to our consolidated financial statements, together with a report thereon of PricewaterhouseCoopers LLP, dated February 25, 2011, are attached hereto as pages F-1 through F-37.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in the reports we file or submit under the Exchange Act of 1934, is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required financial disclosure.

An evaluation was performed under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures, as defined in Rule 13a-15(e) and Rule 15d-15(e) under the Exchange Act, as of December 31, 2010.

Based on that evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that as of December 31, 2010 our disclosure controls and procedures, as defined in Rule 13a-15(e) and Rule 15(d)-15(e) under the Exchange Act, were effective.

Management Report on Internal Control over Financial Reporting

We are responsible for establishing and maintaining adequate internal control over our financial reporting. We have assessed the effectiveness of internal control over financial reporting as of December 31, 2010. Our assessment was based on criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission, or COSO, in Internal Control-Integrated Framework.

Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles in the United States of America (“U.S. GAAP”). Our internal control over financial reporting includes those policies and procedures that:

- (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect our transactions and dispositions of our assets;
- (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. GAAP, and that our receipts and expenditures are being made only in accordance with authorizations of our management and board of directors; and
- (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of our assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Based on using the COSO criteria, management concluded our internal control over financial reporting as of December 31, 2010 was effective.

The effectiveness of the Company’s internal control over financial reporting as of December 31, 2010 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears in Item 15.

Changes in internal control over financial reporting.

There was no change in our internal control over financial reporting that occurred during the quarter ended December 31, 2010 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Remediation of material weaknesses.

As discussed in “Item 9A(T) Controls and Procedures – Management’s Report on Internal Control over Financial Reporting” in our Annual Report on Form 10-K for the fiscal year ended December 31, 2009, a material weakness existed in our internal control over financial reporting related to maintaining sufficient staff

with the necessary experience in U.S. GAAP to timely perform our controls procedures relating to the accounting and reporting processes. Specifically, as a result of our Bankruptcy Filing under Chapter 11 of the Bankruptcy Code, we did not have sufficient accounting and reporting expertise necessary to make estimates requiring significant judgment or to record complex transactions in a manner necessary to facilitate the timely filing of all Forms required by the Exchange Act.

A material weakness is a significant deficiency (within the meaning of Public Company Accounting Oversight Board Auditing Standard No. 5), or combination of significant deficiencies, that results in more than a remote likelihood that a material misstatement of the annual or interim financial statements will not be prevented or detected on a timely basis by employees in the normal course of their work.

Throughout fiscal 2010, we have been involved in efforts to restore and maintain an effective internal control environment. In February 2010, as part of this process, we hired an Interim Vice President, Finance & Chief Accounting Officer and engaged independent contractors, some of whom were our former employees, to perform an extensive review of fiscal 2008 and 2009 transactions and prepare financial statements for the years then ended in accordance with U.S. GAAP. In May 2010, we filed our past-due Forms 10-Qs and 10-Ks to become compliant with the Exchange Act. We have hired a Vice President and Chief Financial Officer, a Corporate Controller and two full-time accounting staff. In addition, we have restored, updated and re-implemented our internal control processes and procedures to reflect our existing operations.

We have tested the effectiveness of the newly implemented controls and found them to be operating effectively for a sufficient period of time to reduce to a remote likelihood the possibility of a material misstatement. As a result, management has concluded that, as of December 31, 2010, the material weakness described above has been remediated.

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information regarding our Directors, committees of our Board of Directors, including our audit committee and nominating and corporate governance committee, our Director nomination process, and our Executive Officers appearing under the heading “Information Regarding the Board of Directors, Committees and Corporate Governance,” “Management” and “Section 16(a) Beneficial Ownership Reporting Compliance,” of our proxy statement relating to our 2011 Annual Meeting of Stockholders to be held on June 23, 2011 (the “2011 Proxy Statement”) is incorporated by reference.

Our Board of Directors adopted a code of ethics in December 2010. This code of ethics is applicable to all employees, including both our President and Chief Executive Officer and Chief Financial Officer. This code of ethics is publicly available on our website at <http://www.vermillion.com>. If our Board makes any amendments to this code other than technical, administrative or other non-substantive amendments, or grants any waivers, including implicit waivers, from a provision of this code to any officer or person described in paragraph (a) of Item 5.05 of Form 8-K, we will disclose the nature of the amendment or waiver, its effective date and to whom it applies on our website.

ITEM 11. EXECUTIVE COMPENSATION

The information appearing under the headings “Board Compensation,” “Compensation Discussion and Analysis,” “Executive Officer Compensation,” “Corporate Governance – Compensation Committee Interlocks and Insider Participation” and “Report of the Compensation Committee” of the 2011 Proxy Statement is incorporated by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information appearing under the heading “Security Ownership of Certain Beneficial Owners and Management” of the 2011 Proxy Statement is incorporated by reference.

See the description regarding our equity compensation plans contained in the notes to our financial statements, attached hereto.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information appearing under the heading “Certain Relationships and Related Transactions” and “Information Regarding the Board of Directors, Committees and Corporate Governance” of the 2011 Proxy Statement is incorporated by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information appearing under the heading “Ratification of the Selection of the Independent Public Accounting Firm for Vermillion” of the 2011 Proxy Statement is incorporated by reference.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) LIST OF DOCUMENTS FILED AS PART OF THIS REPORT:

1. *Financial Statements*

The financial statements and notes thereto, and the reports of the independent registered public accounting firm thereon, are set forth on pages F-1 through F-37.

2. *Exhibits*

The exhibits listed in the accompanying index to exhibits are filed or incorporated by reference as part of this Annual Report on Form 10-K.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Vermillion, Inc.

Date: February 25, 2011

/s/ Gail S. Page

Gail S. Page
Executive Chairperson, President and Chief Executive Officer (Principal Executive Officer)

Date: February 25, 2011

/s/ Sandra A. Gardiner

Sandra A. Gardiner
Vice President and Chief Financial Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

<u>Name</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Gail S. Page</u> Gail S. Page	Executive Chairperson, President and Chief Executive Officer (Principal Executive Officer)	February 25, 2011
<u>/s/ Sandra A. Gardiner</u> Sandra A. Gardiner	Vice President and Chief Financial Officer	February 25, 2011
<u>/s/ James S. Burns</u> James S. Burns	Director	February 25, 2011
<u>/s/ John F. Hamilton</u> John F. Hamilton	Director	February 25, 2011
<u>/s/ Peter S. Roddy</u> Peter S. Roddy	Director	February 25, 2011
<u>/s/ William C. Wallen, Ph.D.</u> William C. Wallen, Ph.D.	Director	February 25, 2011
<u>/s/ Carl Severinghaus</u> Carl Severinghaus	Director	February 25, 2011

INDEX TO EXHIBITS

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
2.1	Disclosure Statement for Debtor's (Vermillion, Inc.'s) Plan of Reorganization Under Chapter 11 of the Bankruptcy Code dated November 24, 2009	8-K	000-31617	99.1	November 25, 2009	
2.2	Disclosure Statement for Debtor's (Vermillion, Inc.'s) First Amended Plan of Reorganization Under Chapter 11 of the Bankruptcy Code dated December 3, 2009	8-K	000-31617	99.1	December 4, 2009	
2.3	Findings of Fact, Conclusions of Law and Order Confirming Debtor's (Vermillion Inc.'s) Second Amended Plan of Reorganization Under Chapter 11 of the Bankruptcy Code dated January 7, 2010	8-K	000-31617	2.1	January 12, 2010	
3.1	Fourth Amended and Restated Certificate of Incorporation of Vermillion, Inc. dated January 22, 2010	8-K	000-31617	3.1	January 25, 2010	
3.2	Third Amended and Restated Certificate of Incorporation of Vermillion, Inc.	8-K	000-31617	3.1	March 3, 2008	
3.3	Second Amended and Restated Certificate of Incorporation of Vermillion, Inc.	S-1	333-146354	3.1	September 27, 2007	
3.4	Amended and Restated Bylaws of Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.)	S-1/A	333-32812	3.4	August 24, 2000	
4.1	Form of Vermillion, Inc.'s (formerly CIPHERGEN Biosystems, Inc.) Common Stock Certificate	S-1/A	333-32812	4.1	August 24, 2000	
4.2	Indenture between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and U.S. Bank National Association dated August 22, 2003	S-3	333-109556	4.1	October 8, 2003	
4.3	First Supplemental Indenture between Vermillion, Inc. and U.S. Bank National Association dated December 11, 2008	8-K	000-31617	10.1	December 17, 2008	
4.4	Indenture between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and U.S. Bank National Association dated November 15, 2006	8-K	000-31617	4.1	November 21, 2006	

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
4.5	Preferred Shares Rights Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Continental Stock Transfer & Trust Company dated March 20, 2002	8-A	000-31617	4.2	March 21, 2002	
4.6	Amendment to Rights Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Wells Fargo Bank, N.A. dated July 22, 2005	8-K	000-31617	4.4	July 28, 2005	
4.7	Second Amendment to Rights Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Wells Fargo Bank, N.A. dated September 30, 2005	8-K	000-31617	4.5	October 4, 2005	
4.8	Third Amendment to Rights Agreement between Vermillion, Inc. and Wells Fargo Bank, N.A., dated September 11, 2007	8-K	000-31617	10.1	September 12, 2007	
10.1	Fourth Amended and Restated Investors Rights Agreement dated March 3, 2000	S-1	333-32812	10.2	March 20, 2000	
10.2	1993 Stock Option Plan #	S-1	333-32812	10.3	March 20, 2000	
10.3	Form of Stock Option Agreement #	S-1/A	333-32812	10.4	August 24, 2000	
10.4	2000 Stock Plan and related form of Stock Option Agreement #	S-1/A	333-32812	10.5	August 4, 2000	
10.5	Amended and Restated 2000 Employee Stock Purchase Plan #	10-Q	000-31617	10.6	November 14, 2007	
10.6	Vermillion, Inc. 2010 Stock Incentive Plan #	8-K	000-31617	10.1	February 12, 2010	
10.7	CIPHERGEN Biosystems, Inc. 401(k) Plan #	10-K	000-31617	10.7	March 22, 2005	
10.8	Registration Rights Agreement dated August 22, 2003, of Vermillion, Inc.'s (formerly CIPHERGEN Biosystems, Inc.) 4.50% Convertible Senior Notes due September 1, 2008	S-3	333-109556	10.1	October 8, 2003	
10.9	Form of Exchange and Redemption Agreement dated November 3, 2006, between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and certain holders of its 4.50% Convertible Senior Notes due September 1, 2008	8-K	000-31617	10.55	November 6, 2006	

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
10.10	Registration Rights Agreement dated November 15, 2006, between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Initial Purchasers of its 7.00% Convertible Senior Notes due September 1, 2011	8-K	000-31617	10.1	November 21, 2006	
10.11	Letter Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Oppenheimer & Co. Inc. dated August 3, 2006	S-1/A	333-146354	10.46	November 27, 2007	
10.12	Warrant with Oppenheimer & Co. Inc. dated August 3, 2006	S-1/A	333-146354	10.47	November 27, 2007	
10.13	Warrant with Oppenheimer & Co. Inc. dated November 15, 2006	S-1/A	333-146354	10.48	November 27, 2007	
10.14	Engagement Letter between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Oppenheimer & Co. Inc. dated August 3, 2006	S-1/A	333-146354	10.49	November 27, 2007	
10.15	Placement Agent Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Oppenheimer & Co. Inc. dated March 28, 2007	S-1/A	333-146354	10.61	November 27, 2007	
10.16	Securities Purchase Agreement by and among Vermillion, Inc. and the purchasers party thereto dated August 23, 2007	S-1	333-146354	10.57	September 27, 2007	
10.17	Form of Warrant	10-Q	000-31617	10.51	November 14, 2007	
10.18	Form of Securities Purchase Agreement between Vermillion, Inc. and the purchasers party thereto dated December 24, 2009	8-K	000-31617	10.1	December 29, 2009	
10.19	Employment Agreement between Sandra A. Gardiner and Vermillion, Inc. dated April 9, 2010 #	8-K	000-31617	10.1	April 22, 2010	
10.20	Employment Agreement between Gail S. Page and Vermillion, Inc. dated September 28, 2010 #	8-K	000-34810	10.1	September 30, 2010	
10.21	Employment Agreement between Eric T. Fung and Vermillion, Inc. dated September 28, 2010 #	8-K	000-34810	10.2	September 30, 2010	

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
10.22	Form of Severance Agreement between key executive employees and Vermillion, Inc. #	8-K	000-31617	10.1	August 29, 2008	
10.23	Separation Agreement and Release between Debra A. Young and Vermillion, Inc. dated November 1, 2007 #	8-K	000-31617	10.1	November 5, 2007	
10.24	Form of Proprietary Information Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and certain of its employees #	S-1/A	333-32812	10.9	August 24, 2000	
10.25	Consulting Agreement between Richard G. Taylor and Vermillion, Inc. dated August 26, 2008 #	8-K	000-31617	10.1	August 29, 2008	
10.26	Lease Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and John Arrillaga, Trustee of the John Arrillaga Survivor's Trust and Richard T. Peery, Trustee of the Richard T. Peery Separate Property Trust, dated January 28, 2000, and Amendment No. 1 dated August 8, 2000	S-1/A	333-32812	10.12	September 27, 2000	
10.27	MAS License Agreement with IllumeSys Pacific, Inc. dated April 7, 1997	S-1/A	333-32812	10.23	August 24, 2000	
10.28	MAS License Agreement with CIPHERGEN Technologies, Inc. (formerly ISP Acquisition Corporation) dated April 7, 1997	S-1	333-32812	10.24	August 24, 2000	
10.29	Settlement Agreement and Mutual General Release by and among Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.), IllumeSys Pacific, Inc., CIPHERGEN Technologies, Inc., Molecular Analytical Systems, Inc., LumiCyte, Inc. and T. William Hutchens dated May 28, 2003 †	8-K	000-31617	99.2	June 11, 2003	
10.30	Assignment Agreement by and among Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.), IllumeSys Pacific, Inc., CIPHERGEN Technologies, Inc., Molecular Analytical Systems, Inc., LumiCyte, Inc. and T. William Hutchens dated May 28, 2003 †	8-K	000-31617	99.3	June 11, 2003	
10.31	License Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Molecular Analytical Systems, Inc. dated May 28, 2003 †	8-K	000-31617	99.4	June 11, 2003	

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
10.32	Collaborative Research Agreement between University College London, UCL Biomedica plc and Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) dated September 22, 2005 †	10-K	000-31617	10.54	March 17, 2006	
10.33	Distribution and Marketing Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and CIPHERGEN Biosystems KK dated March 24, 1999	S-1/A	333-32812	10.26	September 22, 2000	
10.34	Strategic Alliance Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Quest Diagnostics Incorporated dated July 22, 2005	8-K	000-31617	10.44	July 28, 2005	
10.35	Amendment to Strategic Alliance Agreement between Vermillion, Inc. and Quest Diagnostics Incorporated dated October 7, 2009	8-K	000-31617	10.2	October 21, 2009	
10.36	Amendment to Strategic Alliance Agreement between Vermillion, Inc. and Quest Diagnostics Incorporated dated November 10, 2010	8-K	000-34810	10.1	November 12, 2010	
10.37	Stock Purchase Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Quest Diagnostics Incorporated dated July 22, 2005	8-K	000-31617	10.45	July 28, 2005	
10.38	Warrant between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Quest Diagnostics Incorporated dated July 22, 2005	8-K	000-31617	10.46	July 22, 2005	
10.39	Amendment to Warrant between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Quest Diagnostics Incorporated dated August 29, 2007	8-K	000-31617	10.2	August 29, 2007	
10.40	Letter Agreement between Vermillion, Inc. and Quest Diagnostics Incorporated dated August 29, 2007	S-1	333-146354	10.38	September 27, 2007	
10.41	Credit Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Quest Diagnostics Incorporated dated July 22, 2005	8-K	000-31617	10.47	July 28, 2005	

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
10.42	Debtor-In-Possession Credit and Security Agreement between Vermillion, Inc. and Quest Diagnostics Incorporated dated October 7, 2009	8-K	000-31617	10.1	October 21, 2009	
10.43	Memorialization Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Quest Diagnostics Incorporated dated January 12, 2006	S-1	333-146354	10.40	September 27, 2007	
10.44	Patent Security Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Quest Diagnostics Incorporated dated July 22, 2005	8-K	000-31617	10.48	July 28, 2005	
10.45	Asset Purchase Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated August 14, 2006	14a	000-31617	Annex A	September 12, 2006	
10.46	Amendment to Asset Purchase Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006	S-1	333-146354	10.47	September 27, 2007	
10.47	Stock Purchase Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006	S-1	333-146354	10.48	September 27, 2007	
10.48	Transition Services Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006 †	S-1/A	333-146354	10.53	November 27, 2007	
10.49	Amendment No. 1 to Transition Services Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated May 11, 2007	S-1	333-146354	10.50	September 27, 2007	
10.50	Amendment No. 2 to Transition Services Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated June 15, 2007	S-1	333-146354	10.51	September 27, 2007	

Exhibit Number	Exhibit Description	Incorporated by Reference				Filed Herewith
		Form	File No.	Exhibit	Filing Date	
10.51	Manufacture and Supply Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006 †	S-1/A	333-146354	10.56	November 27, 2007	
10.52	Amendment No. 1 to Manufacture and Supply Agreement between Vermillion, Inc. and Bio-Rad Laboratories, Inc. dated August 27, 2007	S-1	333-146354	10.53	September 27, 2007	
10.53	Cross License Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006 †	S-1/A	333-146354	10.58	November 27, 2007	
10.54	Sublicense Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006	S-1	333-146354	10.13	September 27, 2007	
10.55	Letter Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006	S-1	333-146354	10.55	September 27, 2007	
10.56	Sublease Agreement between Vermillion, Inc. (formerly CIPHERGEN Biosystems, Inc.) and Bio-Rad Laboratories, Inc. dated November 13, 2006 †	S-1/A	333-146354	10.60	November 27, 2007	
14.1	Code of Ethics	8-K	001-34810	14.1	December 7, 2010	
21.0	Subsidiaries of Registrant					✓
23.1	Consent of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm					✓
31.1	Certification of the Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002					✓
31.2	Certification of the Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002					✓
32.0	Certification of the Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002					(1)

(1) Furnished herewith

Management contracts or compensatory plan or arrangement.

† Certain portions of this exhibit have been omitted and filed separately with the SEC. Confidential treatment has been requested with respect to such omitted portions.

VERMILLION, INC.

INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

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Consolidated Statement of Operations for the years ended December 31, 2010, 2009 and 2008	F-3
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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Vermillion, Inc.

In our opinion, the consolidated financial statements listed in the accompanying index present fairly, in all material respects, the financial position of Vermillion, Inc. and its subsidiaries at December 31, 2010 and 2009, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2010 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2010, based on criteria established in *Internal Control—Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the Management Report on Internal Control over Financial Reporting appearing under Item 9A. Our responsibility is to express opinions on these financial statements and on the Company's internal control over financial reporting based on our audits (which was an integrated audit in 2010). We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

As discussed in Note 2 to the consolidated financial statements, the Company voluntarily filed for Chapter 11 bankruptcy protection on March 30, 2009 and subsequently emerged from bankruptcy on January 22, 2010.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ PricewaterhouseCoopers LLP
San Jose, California
February 25, 2011

Vermillion, Inc.
Consolidated Balance Sheets
(Amounts in Thousands, Except Share and Par Value Amounts)

	December 31,	
	2010	2009
Assets		
Current assets:		
Cash and cash equivalents	\$ 22,914	\$ 3,440
Accounts receivable	136	—
Prepaid expenses and other current assets	779	454
Total current assets	23,829	3,894
Property and equipment, net	194	189
Long-term investments, at fair value	—	526
Other assets	12	—
Total assets	\$ 24,035	\$ 4,609
Liabilities and Stockholders' Equity (Deficit)		
Current liabilities:		
Accounts payable	\$ 998	\$ 2,227
Accrued liabilities	3,056	1,903
Debtor-in-possession loan with related party	—	400
Convertible senior notes, net of discount	5,000	—
Deferred revenue	1,049	—
Total current liabilities	10,103	4,530
Non-current liabilities:		
Long-term debt owed to related party	7,000	10,000
Warrant liability	378	5,659
Long-term deferred revenue	1,679	—
Liabilities subject to compromise	—	11,737
Other liabilities	259	—
Total liabilities	19,419	31,926
Commitments and contingencies		
Stockholders' equity (deficit):		
Preferred stock, \$0.001 par value, 5,000,000 shares authorized, none issued and outstanding at December 31, 2010 and 2009, respectively	—	—
Common stock, \$0.001 par value, 150,000,000 shares authorized; 10,657,564 and 7,918,705 shares issued and outstanding at December 31, 2010 and 2009, respectively	11	8
Additional paid-in capital	303,270	252,196
Accumulated deficit	(298,509)	(279,475)
Accumulated other comprehensive loss	(156)	(46)
Total stockholders' equity (deficit)	4,616	(27,317)
Total liabilities and stockholders' equity (deficit)	\$ 24,035	\$ 4,609

See accompanying Notes to Consolidated Financial Statements

Vermillion, Inc.
Consolidated Statement of Operations
(Amounts in Thousands, Except Share and Per Share Amounts)

	<u>Year Ended December 31,</u>		
	<u>2010</u>	<u>2009</u>	<u>2008</u>
Revenue:			
Product	\$ 308	\$ —	\$ 10
License	867	—	114
Total revenue	<u>1,175</u>	<u>—</u>	<u>124</u>
Cost of revenue:			
Product	88	—	4
Services	—	—	20
Total cost of revenue	<u>88</u>	<u>—</u>	<u>24</u>
Gross profit	1,087	—	100
Operating expenses:			
Research and development ⁽¹⁾	3,848	2,346	5,289
Sales and marketing ⁽²⁾	2,857	455	2,019
General and administrative ⁽³⁾	8,984	2,562	7,309
Total operating expenses	<u>15,689</u>	<u>5,363</u>	<u>14,617</u>
Loss from Operations	(14,602)	(5,363)	(14,517)
Interest income	40	28	399
Interest expense	(491)	(1,691)	(2,035)
Gain (loss) on investments in auction rate securities	58	—	(2,176)
Change in fair value and gain from exercise of warrants, net	4,353	(12,106)	—
Debt conversion costs	(141)	(819)	—
Reorganization items	(1,677)	(2,066)	—
Reorganization items—related party incentive plan	(6,932)	—	—
Other income (expense), net	358	(20)	(41)
Loss before income taxes	<u>(19,034)</u>	<u>(22,037)</u>	<u>(18,370)</u>
Income tax benefit (expense)	—	(11)	40
Net loss	<u>\$ (19,034)</u>	<u>\$ (22,048)</u>	<u>\$ (18,330)</u>
Net loss per share—basic and diluted	<u>\$ (1.83)</u>	<u>\$ (3.31)</u>	<u>\$ (2.87)</u>
Weighted average common shares used to compute basic and diluted net loss per common share	<u>10,404,741</u>	<u>6,662,231</u>	<u>6,381,802</u>
Non-cash stock-based compensation expense included in operating expenses:			
(1) Research and development	\$ 992	\$ 219	\$ 120
(2) Sales and marketing	77	24	93
(3) General and administrative	3,868	328	423

See accompanying Notes to Consolidated Financial Statements

Vermillion, Inc.
Consolidated Statement of Changes in Stockholders' Equity (Deficit) and Comprehensive Loss
(Amounts in Thousands, Except Share Amounts)

	Common Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Loss	Total Stockholders' Equity (Deficit)	Comprehensive Loss
	Shares	Amount					
Balance at December 31, 2007	6,380,197	6	227,895	(239,142)	(221)	(11,462)	
Net loss	—	—	—	(18,330)	—	(18,330)	\$(18,330)
Change in unrealized gain(loss) on available for sale securities	—	—	—	—	98	98	98
Foreign currency translation adjustment	—	—	—	—	(39)	(39)	(39)
Comprehensive loss							<u>\$(18,271)</u>
Registration costs adjustment related to private placement offering	—	—	26	—	—	26	
Payment for fractional shares related to 1 for 10 reverse stock split	(31)	—	—	—	—	—	
Common stock shares issued in connection with employee stock purchase plan	3,750	—	3	—	—	3	
Stock compensation charge	—	—	636	—	—	636	
Balance at December 31, 2008	6,383,916	6	228,560	(257,472)	(162)	(29,068)	
Net loss	—	—	—	(22,048)	—	(22,048)	\$(22,048)
Cumulative effect of a change in accounting principle to reclassify certain warrants to warrant liability				(21)		(21)	
Cumulative effect adjustment to reclassify a portion of previously recognized other-than temporary impairment of auction rate securities	—	—	—	66	(66)	—	—
Change in unrealized gain(loss) on available for sale securities	—	—	—	—	185	185	185
Foreign currency translation adjustment	—	—	—	—	(3)	(3)	(3)
Comprehensive loss							<u>\$(21,866)</u>
Warrant exercises	886,372	1	10,015	—	—	10,016	
Conversion of convertible senior notes	648,417	1	13,050	—	—	13,051	
Stock compensation charge	—	—	571	—	—	571	
Balance at December 31, 2009	7,918,705	8	252,196	(279,475)	(46)	(27,317)	
Net loss	—	—	—	(19,034)	—	(19,034)	\$(19,034)
Change in unrealized gain(loss) on auction rate securities	—	—	—	—	(119)	(119)	(119)
Foreign currency translation adjustment	—	—	—	—	9	9	9
Comprehensive loss							<u>\$(19,144)</u>
Common stock issued in conjunction with private placement sale, net of issuance costs	2,327,869	2	42,780	—	—	42,782	
Common stock issued in conjunction with exercise of stock options	21,083	—	42	—	—	42	
Warrant exercises, net of issuance cost	46,972	—	926	—	—	926	
Conversion of convertible senior notes, net of issuance cost	16,283	—	458	—	—	458	
Common stock issued for debtor's incentive plan	226,904	—	4,969	—	—	4,969	
Common stock issued for restricted stock awards	99,748	1	535	—	—	536	
Stock compensation charge	—	—	1,364	—	—	1,364	
Balance at December 31, 2010	10,657,564	\$ 11	\$303,270	\$(298,509)	\$(156)	\$ 4,616	

See accompanying Notes to Consolidated Financial Statements

Vermillion, Inc.
Consolidated Statement of Cash Flows
(Amounts in Thousands)

	Year Ended December 31,		
	2010	2009	2008
Cash flows from operating activities:			
Net loss	\$(19,034)	\$(22,048)	\$(18,330)
Adjustments to reconcile net loss to net cash used in operating activities:			
Charge on impairment and (gain) loss on sale of investments	(58)	—	2,176
Change in warrant value and gain from warrant exercise, net	(4,353)	12,106	—
Common stock issued for debtor's incentive plan with related parties	4,969	—	—
Non-cash license revenue	(867)	—	—
Debt conversion costs	141	819	—
Loss (gain) on sale and disposal of property and equipment	56	(2)	334
Depreciation and amortization	114	335	928
Stock-based compensation expense	1,900	571	636
Amortization of debt discount	—	73	211
Amortization of debt issuance costs	—	9	58
Write-off of debt issuance costs and discounts related to debt subject to compromise	—	93	—
Impairment of property and equipment	—	87	—
Changes in operating assets and liabilities:			
(Increase) decrease in accounts receivable	(136)	31	(12)
Decrease (increase) in prepaid expenses and other current assets	(385)	(108)	778
Decrease in other assets	(12)	—	555
Increase (decrease) in accounts payable and accrued liabilities	63	4,920	(2,469)
Decrease in deferred revenue	595	—	(27)
Decrease in other liabilities	—	—	(278)
Reorganization items	(3,928)	—	—
Net cash used in operating activities	<u>(20,935)</u>	<u>(3,114)</u>	<u>(15,440)</u>
Cash flows from investing activities:			
Proceeds from sales of investments	465	—	14,458
Purchases of investments	—	—	(4,100)
Purchase of certificate of deposit pledged as collateral on letter of credit	—	—	(100)
Proceeds from sale of property and equipment	5	2	150
Purchase of property and equipment	(180)	—	(85)
Proceeds from maturity of CD pledged as collateral on letter of credit	60	40	—
Net cash provided by investing activities	<u>350</u>	<u>42</u>	<u>10,323</u>
Cash flows from financing activities:			
Proceeds from (repayment of) debtor-in-possession loan financing with related party	(400)	400	—
Principal repayment of 4.50% convertible senior notes	(2,195)	—	—
Proceeds from private placement offering of common stock, net of issuance costs	42,782	—	—
Proceeds from issuance of common stock from exercise of stock options	42	—	—
Proceeds from stock warrant exercises, net of issuance costs	—	3,651	—
Costs related to issuance of common stock from warrant exercises	(133)	—	—
Proceeds from purchase of common stock by employee stock purchase plan	—	—	3
Issuance costs related to conversion of convertible senior notes	(46)	—	—
Net cash provided by financing activities	<u>40,050</u>	<u>4,051</u>	<u>3</u>
Effect of exchange rate changes on cash and cash equivalents	9	(3)	(39)
Net increase (decrease) in cash and cash equivalents	19,474	976	(5,153)
Cash and cash equivalents, beginning of year	3,440	2,464	7,617
Cash and cash equivalents, end of year	<u>\$ 22,914</u>	<u>\$ 3,440</u>	<u>\$ 2,464</u>
Supplemental disclosure of cash flow information:			
Cash paid during the period for:			
Interest	\$ 1,407	\$ 67	\$ 1,859
Income taxes	—	10	35
Noncash investing and financing activities:			
Unrealized (gain) loss on investments	\$ —	\$ (185)	\$ 98
Principal reduction from conversion of senior convertible notes	(170)	—	—
Principal reduction from forgiveness of Quest secured line of credit	(3,000)	—	—
Cumulative effect of change in accounting principle—warrant liability	—	(21)	—
Cumulative effect of change in accounting principle—unrealized loss on investments	—	66	—
Registration costs adjustment related to private placement offering of common stock and warrants	—	—	26
Issuance of common stock from warrant exercise	1,059	6,365	—
Issuance of common stock from conversion of principal and interest for senior convertible notes	504	13,051	—

See accompanying Notes to Consolidated Financial Statements

Vermillion, Inc.
Notes to Consolidated Financial Statements

NOTE 1: BASIS OF PRESENTATION AND SUMMARY OF SIGNIFICANT ACCOUNTING AND REPORTING POLICIES

Organization

Vermillion, Inc. (“Vermillion”; Vermillion and its wholly-owned subsidiaries are collectively referred to as “we” or the “Company”) is incorporated in the state of Delaware, and is engaged in the business of discovering, developing and commercializing diagnostics tests in the fields of oncology, hematology, cardiology and women’s health. On March 9, 2010, we commercially launched OVA1™ ovarian tumor triage test (“OVA1”) and on September 20, 2010 OVA1 was CE marked, a requirement for marketing the test in the European Union.

Liquidity

We have incurred significant net losses and negative cash flows from operations since inception. At December 31, 2010, we had an accumulated deficit of \$298,509,000. On November 13, 2006, we completed the sale of assets and liabilities of our protein research products and collaborative services business (the “Instrument Business Sale”) to Bio-Rad Laboratories, Inc. (“Bio-Rad”). On March 30, 2009, we filed a voluntary petition for relief (the “Bankruptcy Filing”) under the Bankruptcy Code in the United States Bankruptcy Court for the District of Delaware (the “Bankruptcy Court”). On January 7, 2010, in connection with the Second Amended Plan of Reorganization under Chapter 11 (“Plan of Reorganization”), we completed a private placement sale of 2,327,869 shares of our common stock to a group of new and existing investors for \$43,050,000 in gross proceeds. Subsequently on January 22, 2010, the confirmation order issued by the Bankruptcy Court approving our Plan of Reorganization became final and all conditions precedent to January 22, 2010 were satisfied or waived. Accordingly, we emerged from bankruptcy under Chapter 11 (see Note 2). On March 9, 2010, we commercially launched OVA1. Due to the Instrument Business Sale and recent commercial launch of OVA1, we will have limited revenues until additional diagnostic tests are developed or we continue to successfully commercialize OVA1.

To become profitable in the future, we may need to complete development of additional key diagnostic tests, obtain United States Food and Drug Administration (“FDA”) approval and successfully commercialize those products in addition to OVA1. Our ability to continue to meet our obligations and to achieve our business objectives is dependent upon, among other things, raising additional capital or generating sufficient revenue in excess of costs. We may seek to raise additional funding from various possible sources, including the public equity market, private financings, sales of assets, collaborative arrangements and debt. If we raise additional capital through the issuance of equity securities or securities convertible into equity, stockholders will experience dilution, and such securities may have rights, preferences or privileges senior to those of the holders of our common stock or convertible senior notes. If we raise additional funds by issuing debt, we may be subject to limitations on our operations through debt covenants or other restrictions. If we obtain additional funds through arrangements with collaborators or strategic partners, we may be required to relinquish our rights to certain technologies or products that we might otherwise seek to retain.

There can be no assurance that we will be able to obtain such financing, or obtain it on acceptable terms. If we are unable to obtain financing on acceptable terms, we may be unable to execute our business plan and we could be required to reduce the scope of or eliminate our sales and marketing and research and development activities.

Principals of Consolidation

The consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries. All intercompany transactions have been eliminated in consolidation.

Basis of Presentation

On February 15, 2008, our Board of Directors approved a 1 for 10 reverse stock split (the “Reverse Stock Split”) of our common stock effective at the close of business on Monday, March 3, 2008. All share and per share amounts were adjusted to take into account the Reverse Stock Split in the accompanying notes to the consolidated financial statements.

The Financial Accounting Standards Board’s (“FASB”) Accounting Standards Codification (“ASC” or “Codification”) 852 “Reorganizations” applied to our financial statements while we operated under the provisions of Chapter 11. ASC 852 does not change the application of generally acceptable accounting principles in the United States of America (“U.S. GAAP”) in the preparation of financial statements. However, for periods including and subsequent to the filing of the Chapter 11 petition, ASC 852 does require that the financial statements distinguish transactions and events that are directly associated with the reorganization from the ongoing operations of the business. Accordingly, certain expenses that were realized or incurred during the Chapter 11 proceedings have been classified as “reorganization items” on the accompanying consolidated statements of operations. In addition, pre-petition obligations that were impacted by the Plan of Reorganization were classified as “liabilities subject to compromise” on the consolidated balance sheet as of December 31, 2009. Upon emergence from bankruptcy under Chapter 11, we reclassified the pre-petition obligations back to accounts payable, accrued liabilities and convertible senior notes as is reflected on the consolidated balance sheet at December 31, 2010.

Use of Estimates

The preparation of consolidated financial statements in accordance with U.S. GAAP requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. The primary estimates underlying our consolidated financial statements include the fair value of our investment portfolio, assumptions regarding variables used in calculating the fair value of our equity awards, income taxes and contingent liabilities. Actual results could differ from those estimates.

Cash and Cash Equivalents and Long-term Investments

Cash and cash equivalents consist of cash and highly liquid investments with maturities of three months or less from the date of purchase, which are readily convertible into known amounts of cash and are so near to their maturity that they present an insignificant risk of changes in value because of interest rate changes. Highly liquid investments that are considered cash equivalents include money market funds, certificates of deposits, treasury bills and commercial paper. The carrying value of cash equivalents approximates fair value due to the short-term maturity of these securities.

We classify all of our marketable securities as available-for-sale and carry these investments at fair value, based upon the levels of inputs described below. The amortized cost of securities in this category is adjusted for amortization of premiums and accretions of discounts to maturity. Such amortization is included in interest income. Realized gains and losses are recorded in our statement of operations. If we believe that an other-than-temporary decline exists, it is our policy to record a write-down to reduce the investments to fair value and record the related charge as a reduction of interest income.

We review the impairment of our investments on a quarterly basis in order to determine the classification of the impairment as “temporary” or “other-than-temporary”. Beginning January 1, 2009, if the fair value of a debt security is less than its amortized cost, we assess whether the impairment is other-than-temporary. An impairment is considered other-than-temporary if: (i) we have the intent to sell the security; (ii) it is more likely than not that we will be required to sell the security before recovery of the entire amortized cost basis; or (iii) we do not expect to recover the entire amortized cost basis of the security. If an impairment is considered other than temporary based on condition (i) or (ii) described above, the entire difference between the amortized cost and the

fair value of the debt security is recognized in earnings. If an impairment is considered other than temporary based on condition (iii) described above, the amount representing credit losses (defined as the difference between the present value of the cash flows expected to be collected and the amortized cost basis of the debt security) will be recognized in earnings and the amount relating to all other factors will be recognized in other comprehensive loss. Prior to January 1, 2009, declines in the fair value of debt securities deemed to be other-than-temporary were reflected in earnings as realized losses. Once an other-than-temporary impairment is recorded, a new cost basis in the investment is established.

With respect to the auction rate securities that were held as of January 1, 2009, we determined that the cumulative effect adjustment required to reclassify the non-credit portion of previously recognized other-than-temporarily impaired adjustments was \$66,000. Therefore, we decreased our accumulated deficit and increased our accumulated other comprehensive loss by the \$66,000 cumulative effect adjustment. With respect to the \$1 million of par value auction rate securities investments held as of December 31, 2009, the unrealized gain included in accumulated comprehensive loss was \$119,000. On July 26, 2010, we sold the auction rate securities investments for total proceeds of \$465,000 and recorded a realized gain on investment of \$58,000 for the year ended December 31, 2010.

Fair Value Measurement

ASC 820, "Fair Value and Measurements" defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. ASC 820 also establishes a fair value hierarchy which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The standard describes three levels of inputs that may be used to measure fair value:

Level 1 - Quoted prices in active markets for identical assets or liabilities.

Level 2 - Observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities. Our short-term investments primarily utilize broker quotes in a non-active market for valuation of these securities.

Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

If a financial instrument uses inputs that fall in different levels of the hierarchy, the instrument will be categorized based upon the lowest level of input that is significant to the fair value calculation. Our financial assets measured at fair value on a recurring basis include securities available for sale. Securities available for sale include money market funds and auction rate securities in credit linked private placement notes.

Concentration of Credit Risk

Financial instruments that potentially subject us to a concentration of credit risk consist of cash and cash equivalents and accounts receivable. We maintain the majority of our cash and cash equivalents in recognized financial institutions in the United States. We also maintain cash deposits with banks in Western Europe, Canada, China and Japan. We have not experienced any losses associated with its deposits of cash and cash equivalents. We do not invest in derivative instruments or engage in hedging activities.

Our accounts receivable are derived from sales made to customers located in North America. We perform ongoing credit evaluations of our customer's financial condition and generally do not require collateral. We maintain an allowance for doubtful accounts based upon the expected collectability of accounts receivable. Our accounts receivable at December 31, 2010 and revenues for the year then ended are from one customer. Our accounts receivable at December 31, 2008 and revenues for the year then ended are from two customers.

Property and Equipment

Property and equipment are carried at cost less accumulated depreciation and amortization. Property and equipment are depreciated using the straight-line method over the estimated useful lives, generally three to five years. Leasehold improvements are amortized using the straight-line method over the shorter of the estimated useful life of the asset or the remaining term of the lease. Maintenance and repairs are charged to operations as incurred. Upon sale or retirement of assets, the cost and related accumulated depreciation are removed from the balance sheet and the resulting gain or loss is reflected in operations.

Property and equipment are reviewed for impairment when events or changes in circumstances indicate the carrying amount of an asset may not be recoverable. If property and equipment are considered to be impaired, an impairment loss is recognized.

Revenue Recognition

Product Revenue. We derive our product revenues from sales of OVA1 through Quest Diagnostics. Our product revenues for tests performed are recognized when the following revenue recognition criteria are met: (1) persuasive evidence that an arrangement exists; (2) delivery has occurred or services have been rendered; (3) the fee is fixed or determinable; and (4) collectability is reasonably assured. Accounts receivable from Quest Diagnostics Incorporated (“Quest Diagnostics”) totaled \$121,000 and none at December 31, 2010 and 2009, respectively.

License Revenue. Under the terms of the secured line of credit with Quest Diagnostics, portions of the borrowed principal amounts may be forgiven upon our achievement of certain milestones relating to the development, regulatory approval and commercialization of certain diagnostic tests (see Note 4). We account for forgiveness of principal debt balances as license revenues over the term of the exclusive sales period that Quest Diagnostics receives upon commercialization of an approved diagnostic test as we do not have a meaningful history of product sales that provides a reasonable basis for estimating future product sales. We recognized license revenue straight-lined over the 2.5-year period of Quest Diagnostics’ sales exclusivity beginning on OVA1 commercialization date of March 9, 2010 through November 10, 2010. On November 10, 2010, the period of Quest Diagnostics’ sales exclusivity for OVA1 was amended for up to three additional years. Accordingly, the balance of the principle amount forgiven at November 10, 2010 is recognized as license revenue on a straight-line basis over the amended term of exclusivity for OVA1 ending in September 2015. Through December 31, 2010, a total of \$3,000,000 has been forgiven by Quest Diagnostics based upon milestone achievement.

Other product and service revenue. Revenue from other product sales, including consumables, is recognized upon product shipment, provided no significant obligations remain and collection of the receivables is reasonably assured. Revenue from shipping and handling is recognized upon product shipment, based on the amount billed to customers for shipping and handling. The related cost of shipping and handling is included in cost of revenue upon product shipment. Services revenue was recognized upon completion of work and receipt of payment.

Research and Development Costs

Research and development costs are expensed as incurred. Research and development costs consist primarily of payroll and related costs, materials and supplies used in the development of new products, intellectual property maintenance, and fees paid to third parties that conduct certain research and development activities on our behalf. Software development costs incurred in the research and development of new products are expensed as incurred until technological feasibility is established.

Stock-Based Compensation

We account for stock options and stock purchase rights related to our 2010 Stock Incentive Plan (the “2010 Plan”), 2000 Stock Plan (the “2000 Plan”) and 2000 Employee Stock Purchase Plan (the “2000 ESPP”) under the

provisions of ASC 718, “Compensation – Stock Compensation,” (“ASC 718”) which requires the recognition of the fair value of stock-based compensation. The fair value of stock options and 2000 ESPP shares is estimated using a Black-Scholes option valuation model. This model requires the input of subjective assumptions in implementing ASC 718 including expected stock price volatility, expected life and estimated forfeitures of each award. The fair value of equity-based awards is amortized over the vesting period of the award, and we have elected to use the straight-line method of amortization. These assumptions consist of estimates of future market conditions, which are inherently uncertain, and therefore are subject to management’s judgment.

The expected life of options is based on historical data of our actual experience with the options it has granted and represents the period of time that the options granted are expected to be outstanding. This data includes employees’ expected exercise and post-vesting employment termination behaviors. The expected stock price volatility is estimated using a combination of historical and peer group volatility for a blended volatility in deriving the expected volatility assumption. We made an assessment that blended volatility is more representative of future stock price trends than just using historical or peer group volatility, which corresponds to the expected life of the options. The expected dividend yield is based on the estimated annual dividends that we expect to pay over the expected life of the options as a percentage of the market value of our common stock as of the grant date. The risk-free interest rate for the expected life of the options granted is based on the United States Treasury yield curve in effect as of the grant date.

The expected life of shares purchased under the 2000 ESPP is six months, which corresponds to the offering period. The expected stock price volatility is estimated using a combination of historical and peer group volatility for a blended volatility in deriving the expected volatility assumption, which corresponds to the offering period. The expected dividend yield is based on the estimated annual dividends that we expect to pay over the expected life of shares purchased under the 2000 ESPP as a percentage of the market value of our common stock as of the grant date. The risk-free interest rate for the expected life of the shares purchased under the 2000 ESPP is based on the United States Treasury yield curve in effect as of the beginning of the offering period.

We account for equity instruments issued to non-employees in accordance with the provisions of ASC 718 and ASC 505, “Equity.” As a result, the non-cash charge to operations for non-employee options with vesting or other performance criteria is affected each reporting period by changes in the estimated fair value of our common stock. The two factors which most affect these changes are the price of the common stock underlying stock options for which stock-based compensation is recorded and the volatility of the stock price. If our estimates of the fair value of these equity instruments change, it would have the effect of changing compensation expenses.

Contingencies

We account for contingencies in accordance with ASC 450 Contingencies (“ASC 450”). ASC 450 requires that an estimated loss from a loss contingency shall be accrued when information available prior to issuance of the financial statements indicates that it is probable that an asset has been impaired or a liability has been incurred at the date of the financial statements and when the amount of the loss can be reasonably estimated. Accounting for contingencies such as legal and contract dispute matters requires us to use our judgment. We believe that our accruals for these matters are adequate. Nevertheless, the actual loss from a loss contingency might differ from our estimates.

Income Taxes

We account for income taxes using the liability method. Under this method, deferred tax assets and liabilities are determined based on the difference between the financial statement and the tax bases of assets and liabilities using the current tax laws and rates. A valuation allowance is established when necessary to reduce deferred tax assets to the amounts more likely than not expected to be realized.

Financial Interpretation (“FIN”) 48, “Accounting for Uncertainty in Income Taxes”, (codified primarily in FASB ASC Topic 740-10-50, “Accounting for Uncertainty of Income Taxes”) clarifies the accounting for

uncertainty in income taxes recognized in the financial statements in accordance with Statement of Financial Accounting Standards (“SFAS”) 109, “Accounting for Income Taxes” (codified primarily in FASB ASC Topic 740, Income Taxes). ASC Topic 740-10-50 provides that a tax benefit from an uncertain tax position may be recognized when it is more likely than not that the position will be sustained upon examination, including resolutions of any related appeals or litigation processes, based on the technical merits. Income tax positions must meet a more likely than not recognition threshold at the effective date to be recognized upon the adoption of ASC Topic 740-10-50 and in subsequent periods. This interpretation also provides guidance on measurement, derecognition, classification, interest and penalties, accounting in interim periods, disclosure and transition.

We recognize interest and penalties related to unrecognized tax benefits within the interest expense line and other expense line, respectively, in the consolidated statement of operations. Accrued interest and penalties are included within the related liability lines in the consolidated balance sheet.

Foreign Currency Translation

The functional currency of CIPHERGEN Biosystems KK, a wholly owned subsidiary, is the Japanese yen. Accordingly, all balance sheet accounts of this operation are translated into United States dollars using the current exchange rate in effect at the balance sheet date. The revenues and expenses of CIPHERGEN Biosystems KK are translated using the average exchange rates in effect during the period, and the gains and losses from foreign currency translation are recorded in accumulated other comprehensive loss.

The functional currency of all other foreign operations is the United States dollar. Accordingly, all monetary assets and liabilities of these foreign operations are translated into United States dollars at current period-end exchange rates and non-monetary assets and related elements of expense are translated using historical rates of exchange. Income and expense elements are translated to United States dollars using average exchange rates in effect during the period. Gains and losses from the foreign currency transactions of these subsidiaries are recorded as other income (expense).

Other Income

On November 2, 2010, we received notice of an award of two grants for the aggregate sum of \$489,000 under the Internal Revenue Service Qualifying Therapeutic Discovery Projects Grant Program for our ongoing cancer related and peripheral arterial disease (“PAD”) programs. The grant relates to fiscal 2010 expenditures and was awarded to therapeutic or diagnostic discovery projects that show a reasonable potential to result in new therapies or diagnostic tests that address areas of unmet medical need or that prevent, detect or treat chronic or acute diseases and conditions. These grants were included in other income for the year ended December 31, 2010 and were recorded as other current assets at December 31, 2010. We received these grants on February 3, 2011.

Accumulated Other Comprehensive Loss

Accumulated other comprehensive loss consists of unrealized gain (losses) from available-for-sale securities and foreign currency translation adjustment.

Net Loss Per Share

Basic net loss per share is computed by dividing the net loss by the weighted average number of common stock shares outstanding during the period. Diluted loss per share is computed by dividing the net loss by the weighted average number of common stock shares adjusted for the dilutive effect of common stock equivalent shares outstanding during the period. Common stock equivalents consist of convertible senior notes (using the “as if converted” method), stock options, restricted stock units and stock warrants. Common equivalent shares are excluded from the computation in periods in which they have an anti-dilutive effect on earnings per share.

Fair Value of Financial Instruments

Financial instruments include cash and cash equivalents, marketable securities, accounts receivable, accounts payable, accrued liabilities, convertible senior notes and the amount owed on a secured line of credit and debtor-in-possession debt with Quest Diagnostics. The estimated fair value of financial instruments has been determined using available market information or other appropriate valuation methodologies. However, considerable judgment is required in interpreting market data to develop estimates of fair value; therefore, the estimates are not necessarily indicative of the amounts that could be realized or would be paid in a current market exchange. The effect of using different market assumptions and/or estimation methodologies may be material to the estimated fair value amounts. The carrying amounts of cash and cash equivalents, accounts receivable, accounts payable and accrued liabilities are at cost, which approximates fair value due to the short maturity of those instruments. The estimated fair value of the convertible senior notes is based on quoted market prices. The carrying value of the amount owed on a secured line of credit and debtor-in-possession debt with Quest Diagnostics approximates fair value, which is based on discounting the future cash flows using applicable spreads to approximate current interest rates available to us.

Prior to January 1, 2009, common stock warrants were recorded in stockholders equity in accordance with ASC 815, "Derivatives and Hedging" and ASC 825, "Financial instruments." However in June 2008, the FASB issued new guidance now codified in ASC 815 that clarifies the determination of whether an instrument (or an embedded feature) is indexed to an entity's own stock, which would qualify for classification as a liability. The new guidance was effective for financial statements issued for fiscal years beginning after December 15, 2008. The adoption of the new guidance on January 1, 2009, resulted in the reclassification of certain of our outstanding warrants from stockholders' equity to liability and a cumulative effect of change in accounting principle on our accumulated deficit of \$21,000. In addition, the stock warrants are required to be fair valued at each reporting period, with the changes in fair value recognized in our consolidated statement of operations. We fair value the warrants using a Black Scholes valuation model. Since the outstanding common stock warrants are fair valued at the end of each reporting period, any change in the underlying assumptions to the Black Scholes valuation model, including the volatility and price of our common stock, may have a significant impact on our consolidated financial statements.

Segment Reporting

We operate one reportable segment, novel diagnostic tests.

NOTE 2: CHAPTER 11 BANKRUPTCY

On March 30, 2009, we filed a voluntary petition for relief under Chapter 11 in the Bankruptcy Court. We operated our business and managed our properties as debtors in possession under the jurisdiction of the Bankruptcy Court and in accordance with the applicable provisions of the Bankruptcy Code and orders of the Bankruptcy Court. On January 22, 2010, we emerged from bankruptcy under Chapter 11.

Financial Statement Presentation

Our consolidated financial statements have been prepared in accordance with ASC 852, "Reorganization" (ASC 852) and on a going-concern basis, which contemplates continuity of operations, realization of assets and liquidation of liabilities in the ordinary course of business.

Substantially all of our pre-petition debt was in default due to the Bankruptcy Filing. As described below, the accompanying consolidated financial statements present our pre-petition 4.50% Convertible Senior Notes due in 2009 (the "4.50% Notes") and 7.00% Convertible Senior Notes due in 2011 (the "7.00% Notes") totaling \$7,365,000 within liabilities subject to compromise at December 31, 2009. Upon emergence from bankruptcy under Chapter 11, we reclassified the pre-petition obligations back to accounts payable, accrued liabilities and convertible senior notes as is reflected on the consolidated balance sheet at December 31, 2010.

Liabilities Subject to Compromise

As required by ASC 852, we have recorded liability amounts for the claims that can be reasonably estimated and which we believe are probable of being allowed by the Bankruptcy Court. Such claims are subject to future adjustments that may result from, among other things, negotiations with creditors, and rejection of executory contracts and unexpired leases. Liabilities subject to compromise may change due to reclassifications, settlements or reorganization activities that give rise to new claims or increases in existing claims. Upon emergence from bankruptcy under Chapter 11 in January 2010, approved claims were either paid or assumed by us at an agreed upon rate. Certain matters are still subject to disputes as noted below under the Plan of Reorganization.

Liabilities subject to compromise in the consolidated balance sheet consisted of the following at December 31, 2009 (in thousands):

Accounts payable	\$ 1,932
Accrued liabilities	1,696
Payroll and benefits related expenses	744
Convertible senior notes	<u>7,365</u>
Total liabilities subject to compromise	<u>\$11,737</u>

Debtor-In-Possession Credit and Security Agreement with Quest Diagnostics Incorporated

On October 16, 2009, the Bankruptcy Court gave approval for Vermillion to enter into a Debtor-In-Possession Credit and Security Agreement (the “DIP Loan Agreement”) with Quest Diagnostics and to assume under the Bankruptcy Code the Amended Strategic Alliance Agreement. In connection with the assumption of the Amended Strategic Alliance Agreement, we also assumed certain other agreements with Quest Diagnostics related to the Amended Strategic Alliance Agreement, including the pre-petition warrants for the purchase of our common stock. Under the DIP Loan Agreement, Quest Diagnostics agreed to provide a debtor-in-possession loan to us of up to \$1,500,000 (the “DIP Financing”). The DIP Financing was secured by a first lien on substantially all of our assets and bears interest at the prime rate plus 0.5% per annum. The DIP Financing matured at the effective date of a plan of reorganization or February 28, 2010, if earlier. Under the DIP Loan Agreement, we were bound by customary affirmative and negative covenants, including covenants with respect to the use of the funds provided by Quest Diagnostics, and customary events of default—including non-payment, breach of covenants and material breach of the Amended Strategic Alliance Agreement—that may have resulted in acceleration of outstanding amounts, if any, under the DIP Loan Agreement. We received \$400,000 under this agreement on October 27, 2009. On January 22, 2010, we repaid the \$400,000 and interest of \$4,000. Professional service fees relating to the DIP Loan Agreement were expensed as incurred and classified as reorganization items in the accompanying consolidated statement of operations.

Reorganization Items

Professional advisory fees and other costs directly associated with our reorganization are reported separately as reorganization items pursuant to ASC 852. Professional fees include legal fees and legal fees relating to DIP Financing undertaken as part of the reorganization process. The write-off of debt issuance costs and discounts and the underwriting fees related to the DIP Loan Agreement generally represent one-time charges. Certain actions within the non-Debtor companies have occurred as a result of the Chapter 11 bankruptcy proceedings. In addition, we have made adjustments to the carrying value of certain pre-petition liabilities. The costs associated with these actions are also reported as reorganization items. The reorganization items in the consolidated statement of operations at December 31, 2010 and 2009 consisted of the following items:

<u>(in thousands)</u>	<u>Year Ended December 31,</u>	
	<u>2010</u>	<u>2009</u>
Debtors reorganization items		
Professional fees associated with bankruptcy proceedings	\$ 928	\$1,146
Write-off of debt issuance costs and discounts related to debt subject to compromise	—	93
DIP Financing fees	—	203
Related party incentive plan	6,932	—
Debtors reorganization items	\$7,860	\$1,442
Non-Debtors reorganization items		
Professional fees associated with bankruptcy proceedings	\$ 749	\$ 624
Total reorganization items	<u>\$8,609</u>	<u>\$2,066</u>

Plan of Reorganization

On January 7, 2010, the Bankruptcy Court issued a confirmation order approving our Plan of Reorganization. The Plan of Reorganization contemplates the reorganization of the Company and the discharge of all outstanding claims against and interests in the Company. Pursuant to the Plan of Reorganization, as confirmed, each holder of an allowed priority claim received cash in an amount equal to such allowed claim. The secured claim arising from the Quest Diagnostics secured line of credit was reinstated and unimpaired. Holders of the outstanding 4.50% Convertible Senior Notes due in 2009 received the payment of \$2,195,000 of principal, \$140,000 of unpaid interest and 9,044 shares of common stock in exchange of their claims. \$5,000,000 in principal of the outstanding 7.00% Convertible Senior Notes due in 2011 were reinstated. Holders of unpaid interest on previously converted 7.00% Notes received \$362,000 in cash and 7,239 shares related to the unpaid interest of the 7.00% Notes. All holders of allowed general unsecured claims elected to receive cash and were entitled to be paid in full.

Subsequently on January 22, 2010, the confirmation order issued by the Bankruptcy Court approving our Plan of Reorganization became final and all conditions precedent to January 22, 2010 were satisfied or waived. Accordingly, we emerged from bankruptcy under Chapter 11 and reinstated our common stock, par value \$0.001. Although we have emerged from bankruptcy under Chapter 11, the bankruptcy case will remain open until the following matters are resolved, which includes approval by the Bankruptcy Court:

- Molecular Analytical Systems, Inc. Litigation (see Note 9)
- Bio-Rad Laboratories, Inc. Matters (see Note 9)
- \$1,000,000 milestone under the Strategic Alliance Agreement with Quest Diagnostics (see Note 4), and
- Various pre-petition liability objections

NOTE 3: RECENT ACCOUNTING PRONOUNCEMENTS

In April 2010, the FASB amended the authoritative guidance addressing accounting for arrangements in which a vendor satisfies its performance obligations over time, with all or a portion of the consideration contingent on future events, referred to as “milestones.” The scope of the new guidance is limited to milestones in arrangements that involve research or development activities, such as achieving a specific result from the research or development efforts. The amendment provides guidance on the criteria that should be met for determining whether the milestone method of revenue recognition is appropriate. A vendor can recognize consideration that is contingent upon achievement of a milestone in its entirety as revenue in the period in which the milestone is achieved only if the milestone meets all criteria to be considered substantive. A vendor that is affected by the amendment is required to provide a description of the overall arrangement, a description of each milestone and related contingent consideration, a determination of whether each milestone is considered substantive, the factors that the entity considered in determining whether the milestone or milestones are substantive, and the amount of consideration recognized during the period for the milestone or milestones. This amendment will be effective for our interim period ending March 31, 2011. The amendment is not expected to have a material impact on our financial position, results of operations or cash flows.

In September 2009, the FASB issued Accounting Standards Update (“ASU”) 2009-13, *Multiple Deliverable Revenue Arrangements*, which amended the accounting standards for multiple element arrangements to:

- provide updated guidance on whether multiple deliverables exist, how the elements in an arrangement should be separated and how the consideration should be allocated;
- require an entity to allocate revenue in an arrangement using estimated selling prices of each element if a vendor does not have vendor-specific objective evidence of selling price or third-party evidence of selling price; and
- eliminate the use of the residual method and require a vendor to allocate revenue using the relative selling price method.

ASU 2009-13 is effective for fiscal years beginning after June 15, 2010, which for the Company will be January 1, 2011, with early application permitted. The adoption of ASU 2009-13 is not expected to have a significant impact on the Company’s consolidated financial statements.

In February 2010, the SEC issued a policy statement and staff work plan regarding the potential use by United States issuers of financial statements prepared in accordance with International Financial Reporting Standards (“IFRS”). IFRS is a comprehensive series of accounting standards published by the International Accounting Standards Board. Under the proposed timeline set forth by the SEC, we could be required in the future to prepare financial statements in accordance with IFRS, and the SEC is expected to make a determination in 2011 regarding the mandatory adoption of IFRS. We are currently assessing the impact that this potential change would have on our consolidated financial statements, and will continue to monitor the development of the potential implementation of IFRS.

In January 2010, the FASB issued ASU No. 2010-6, *Fair Value Measurements and Disclosures*, to amend the disclosure requirements related to recurring and nonrecurring fair value measurements. ASU 2010-6 requires new disclosures on the transfers of assets and liabilities between Level 1 (quoted prices in active market for identical assets or liabilities) and Level 2 (significant other observable inputs) of the fair value measurement hierarchy, including the reasons and the timing of the transfers. Additionally, this guidance requires a roll forward of activities on purchases, sales, issuance, and settlements of the assets and liabilities measured using significant unobservable inputs (Level 3 fair value measurements). ASU 2010-6 is effective for the Company on January 1, 2010, except for the disclosure on the roll forward activities for Level 3 fair value measurements, which will become effective for the Company on January 1, 2011. Other than requiring additional disclosures, adoption of this new guidance did not have a material impact on our financial statements.

NOTE 4: STRATEGIC ALLIANCE WITH QUEST DIAGNOSTICS INCORPORATED

Quest Diagnostics is a significant holder of our common stock. On July 22, 2005, we entered into a strategic alliance agreement (the “Strategic Alliance Agreement”) with Quest Diagnostics to develop and commercialize up to three diagnostic tests from our product pipeline (the “Strategic Alliance”). The Strategic Alliance Agreement was set to expire on the earlier of (i) the three-year anniversary of the agreement, which was July 22, 2008, and (ii) the date on which Quest Diagnostics commercializes three diagnostic tests. On July 21, 2008, the Strategic Alliance Agreement was amended to extend the term of the agreement to end on the earlier of (i) September 1, 2008 and (ii) the date on which Quest Diagnostics commercializes three diagnostic tests. On October 24, 2008, the Strategic Alliance Agreement was amended to extend the term of the agreement to end on the earlier of (i) September 1, 2009 and (ii) the date on which Quest Diagnostics makes its third development election. On October 7, 2009, the Strategic Alliance Agreement was amended to extend the term of the agreement to end on the earlier of (i) October 7, 2012 and (ii) the date on which Quest Diagnostics has commercially launched three licensed tests under the Strategic Alliance. On November 10, 2010, we further amended the Strategic Alliance Agreement (the Strategic Alliance Agreement and the July 21, 2008, October 24, 2008, October 7, 2009 and November 10, 2010 amendments are collectively referred to as the “Amended Strategic Alliance Agreement”) to give Quest Diagnostics the exclusive right to commercialize OVA1 for up to three additional years from the period as specified in the Strategic Alliance Agreement and to establish royalties, fees, and other payments related to the performance of OVA1. To date, Quest Diagnostics has selected two diagnostic tests to commercialize, our peripheral arterial disease blood test (“VASCLIR”) which is under development and OVA1.

Secured Line of Credit with Quest Diagnostics Incorporated

In connection with the Strategic Alliance Agreement, Quest Diagnostics provided us with a \$10,000,000 secured line of credit, which is collateralized by certain of our intellectual property and may only be used for payment of certain costs and expenses directly related to the Strategic Alliance. Under the terms of this secured line of credit, the interest rate is at the prime rate plus 0.5% and is payable monthly. The effective interest rate was 3.75% and 4.75% at December 31, 2010 and 2009, respectively. This secured line of credit also contains provisions for Quest Diagnostics to forgive portions of the amounts borrowed that corresponds to our achievement of certain milestones related to development, regulatory approval and commercialization of certain diagnostic tests. The amounts to be forgiven and the corresponding milestones that we must achieve are:

- (i) \$1,000,000 for each application that allows a licensed laboratory test to be commercialized with a maximum of three applications for \$3,000,000;
- (ii) \$3,000,000 for the earlier of FDA clearance of the first diagnostic test kit or commercialization of the first diagnostic test kit; and
- (iii) \$2,000,000 upon each FDA clearance of up to two subsequent diagnostic test kits but no later than the first commercialization of each such diagnostic test kit, with a maximum forgiveness of \$4,000,000 for two diagnostic test kits.

If not otherwise forgiven, the principal amount outstanding and any unpaid interest of this secured line of credit will become due and payable on October 7, 2012.

We have drawn on this secured line of credit in monthly increments of \$417,000 on the last day of each month during the first two years of the Strategic Alliance. The outstanding principal balance of this secured line of credit was \$7,000,000 and \$10,000,000 at December 31, 2010 and 2009, respectively. Accrued interest payable related to this secured line of credit was \$63,000 and \$480,000 as of December 31, 2010 and 2009, respectively. Interest expense related to this secured line of credit was \$278,000, \$512,000 and \$560,000 for the years ended December 31, 2010, 2009 and 2008, respectively. From the inception of the Strategic Alliance through December 31, 2008, we have spent \$10,000,000 of the amounts drawn on in-house research and development, as well as collaborations with others, directed towards achieving the milestones. On September 11, 2009, we achieved the FDA clearance of OVA1 milestone provision in the secured line of credit agreement providing for a reduction in the principal amount of the loan of \$3,000,000 but was only able to apply the

milestone once it was no longer in default under the terms of the secured line of credit while under Chapter 11 bankruptcy protection. On January 22, 2010 we cured the default upon payment of accrued interest totaling approximately \$472,000. On January 23, 2010, the principal was reduced to \$7,000,000. We are in discussions with Quest Diagnostics regarding the achievement of an additional \$1,000,000 forgiveness milestone as a result of the FDA clearance of OVA1 under the terms of the Strategic Alliance Agreement.

NOTE 5: FAIR VALUE MEASUREMENTS

Our investments consist of auction rate securities, which were classified as available-for-sale long-term investments due to failed auctions related to these investments through December 31, 2009. The underlying assets of these auction rate securities were private placements of credit linked notes. Our holdings of these private placement investment vehicles were exposed directly and exclusively to credit derivatives. The credit derivatives were synthetic tranches referenced to a portfolio of corporate names on which the investment vehicles sold credit protection. These credit linked notes were valued using a single factor Gaussian copula model and market bids received from Deutsche Bank AG (“Deutsche Bank”). We weighted the valuation equally with the market bid sources when developing the final fair value, given our conclusion that both the valuation and bids data points had equal relevance in estimating fair value.

During the year ended December 31, 2008, we recognized approximately \$659,000 of other-than-temporary impairment charges on our auction rate securities held at December 31, 2008 in our consolidated statement of operations. On January 1, 2009, we adopted accounting guidance that established a new method of recognizing and reporting other-than-temporary impairments for debt securities. Upon adoption of this standard, we recorded a cumulative effect adjustment, resulting in a reclassification of approximately \$66,000 of non-credit losses related to the previously recognized other-than-temporary impairment charges from accumulated deficit to accumulated other comprehensive loss. The non-credit loss was calculated as the difference between the \$659,000 impairment charges recorded previously for the available-for-sale auction rate securities and the \$593,000 of estimated credit losses as of January 1, 2009.

In estimating the credit losses of our previously recognized impairments as of January 1, 2009 and December 31, 2009, we estimated the present value of expected cash flows for each auction rate security compared to the securities’ amortized cost basis for the respective period. This process involved significant judgments and estimates specifically around default rates, recovery rates, interest rates and the timing of expected cash flows. In addition, we considered other available evidence, including trends in credit ratings and changes in financial market conditions including the general economic environment. On July 26, 2010, we sold the auction rate securities investments for total proceeds of \$465,000 and recorded a realized gain on investment of \$58,000 for the year ended December 31, 2010.

Money market cash equivalents and long-term investments at December 31, 2010 and 2009 consist of the following:

<u>(in thousands)</u>	<u>Amortized Cost</u>	<u>Gross Unrealized Gain</u>	<u>Gross Unrealized Loss</u>	<u>Fair Value</u>
December 31, 2010				
Money market funds	\$22,649	\$—	\$—	\$22,649
	<u>\$22,649</u>	<u>\$—</u>	<u>\$—</u>	<u>\$22,649</u>
December 31, 2009				
Money market funds	\$ 8	\$—	\$—	\$ 8
Long term investments in auction rate securities	407	119	—	526
	<u>\$ 415</u>	<u>\$119</u>	<u>\$—</u>	<u>\$ 534</u>

As of December 31, 2010, financial assets measured and recognized at fair value on a recurring basis and classified under the appropriate level of the fair value hierarchy as described above was as follows:

(in thousands)	Total Fair Value	Fair Value Measurements at Reporting Date		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets:				
Money market funds	\$22,649	\$22,649	\$—	\$—
Total	<u>\$22,649</u>	<u>\$22,649</u>	<u>\$—</u>	<u>\$—</u>

As of December 31, 2009, financial assets measured and recognized at fair value on a recurring basis and classified under the appropriate level of the fair value hierarchy as described above was as follows:

(in thousands)	Total Fair Value	Fair Value Measurements at Reporting Date		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets:				
Money market funds	\$ 8	\$ 8	\$—	\$—
Long term investments in auction rate securities	<u>526</u>	<u>—</u>	<u>—</u>	<u>526</u>
Total	<u>\$534</u>	<u>\$ 8</u>	<u>\$—</u>	<u>\$526</u>

Our Level 1 financial assets are money market funds with stated maturities of three months or less from the date of purchase, whose fair values are based on quoted market prices.

At December 31, 2009, long-term investments available-for-sale measured at fair value using Level 3 inputs consisted of \$526,000 invested in auction rate securities. The continued failure of auctions and the lack of market activity and liquidity required that these securities be measured using Level 3 inputs. As of December 31, 2009, our auction rate securities in credit linked notes were valued using a single factor Gaussian copula model and market bids received from Deutsche Bank. On July 26, 2010, we sold the auction rate securities investments for total proceeds of \$465,000 and recorded a realized gain on investment of \$58,000 for the year ended December 31, 2010.

We measure certain common stock warrants at fair value on a recurring basis (see Note 10). All other financial assets and liabilities are measured at fair value on a nonrecurring basis. These financial assets and liabilities are recognized at fair value when they are deemed to be other-than-temporarily impaired.

Our financial assets measured at fair value on a recurring basis using significant Level 3 inputs as of December 31, 2009 consisted solely of auction rate securities. The reconciliation of financial assets measured at fair value using significant unobservable inputs (Level 3) for the years ended December 31, 2010 and 2009 was as follows:

<u>(in thousands)</u>	Long-Term Investments Available- for- Sale (Level 3) Auction Rate Securities
Balance at January 1, 2009	\$ 341
Change in unrealized gain(loss) included in other comprehensive loss	185
Balance at December 31, 2009	<u>526</u>
Total realized gains included in earnings	58
Change in unrealized gain(loss) included in other comprehensive loss	(119)
Sales	<u>(465)</u>
Balance at December 31, 2010	<u>\$ —</u>

The fair value of the our long-term debt based on the then-current rates available to us for debt of a similar term and remaining maturity. We determined the estimated fair value amount by using available market information and commonly accepted valuation methodologies. However, considerable judgment is required in interpreting market data to develop estimates of fair value. Accordingly, the fair value estimate presented herein is not necessarily indicative of the amount that we or holders of the instruments could realize in a current market exchange. The use of different assumptions and/or estimation methodologies may have a material effect on the estimated fair value. The convertible senior notes carrying value and estimated fair value at December 31, 2010 and 2009 were as follows:

<u>(in thousands)</u>	December 31,			
	2010		2009	
	Carrying Amount	Estimated Fair Value	Carrying Amount	Estimated Fair Value
4.50% convertible senior notes due September 1, 2009	\$ —	\$ —	\$2,365	\$2,720
7.00% convertible senior notes due September 1, 2011	<u>5,000</u>	<u>5,000</u>	<u>5,000</u>	<u>5,750</u>
Total	<u>\$5,000</u>	<u>\$5,000</u>	<u>\$7,365</u>	<u>\$8,470</u>

NOTE 6: PROPERTY AND EQUIPMENT

The components of property and equipment as of December 31, 2010 and 2009 were as follows:

<u>(in thousands)</u>	December 31,	
	2010	2009
Machinery and equipment	\$ 123	\$ 1,797
Demonstration equipment	—	509
Leasehold improvements	—	35
Computer equipment and software	244	418
Furniture and fixtures	<u>64</u>	<u>35</u>
Gross property and equipment	431	2,794
Accumulated depreciation and amortization	<u>(237)</u>	<u>(2,605)</u>
Property and equipment, net	<u>\$ 194</u>	<u>\$ 189</u>

Depreciation expense for property and equipment was \$114,000, \$335,000 and \$928,000 for the years ended December 31, 2010, 2009 and 2008, respectively. During the year ended December 31, 2010, we disposed of significant fully depreciated assets in conjunction with our exit of our Fremont, California facility and move to Austin, Texas.

NOTE 7: ACCRUED LIABILITIES

The components of accrued liabilities as of December 31, 2010 and 2009 were as follows:

(in thousands)	December 31,	
	2010	2009
Payroll and benefits related expenses	\$ 596	\$ 5
Collaboration and research agreements expenses	276	393
Professional services	669	505
Contingencies (See Note 9)	925	—
Tax-related liabilities	251	160
Accrued interest on convertible senior notes and long-term debt owed to related party	304	840
Other accrued liabilities	35	—
Total accrued liabilities	<u>\$3,056</u>	<u>\$1,903</u>

NOTE 8: CONVERTIBLE SENIOR NOTES

7.00% Convertible Senior Notes Due September 1, 2011

On November 15, 2006, we closed the sale of \$16,500,000 of convertible senior notes due September 1, 2011. Offering costs were \$104,000 and fees of \$514,500, which were paid on behalf of the debt holders, were recorded as debt discount on the 7.00% Notes. Fees paid on behalf of debt holders included the fair value of two warrants issued to underwriters to purchase a total of 20,000 shares of our common stock at \$12.60 per share. The warrants were valued at \$140,000 based on the fair value as determined by a Black-Scholes model using the following assumptions: a risk free interest rate of 4.75%, 5 year contractual life, and 88.00% volatility rate. Interest on the 7.00% Notes was 7.00% per annum on the principal amount, payable semi-annually on March 1 and September 1 of each year, beginning March 1, 2007. The 7.00% Notes were sold pursuant to separate exchange and redemption agreements between Vermillion and each of Highbridge International LLC, Deerfield International Limited, Deerfield Partners, L.P., Bruce Funds, Inc. and Professional Life & Casualty, each holders of the existing 4.50% convertible senior notes due September 1, 2008, pursuant to which holders of an aggregate of \$27,500,000 of the 4.50% Notes agreed to exchange and redeem their 4.50% Notes for an aggregate of \$16,500,000 in aggregate principal amount of the 7.00% Notes and \$11,000,000 in cash, plus accrued and unpaid interest on the 4.50% Notes of \$254,000 through and including the day prior to the closing. Debt discount related to the 7.00% Notes are amortized to interest expense using the effective interest method. The amortization of the debt discount related to the 7.00% Notes amounted to none, \$44,000 and \$182,000 for the years ended December 31, 2010, 2009 and 2008, respectively.

The 7.00% Notes are unsecured senior indebtedness of Vermillion initially bearing interest at the rate of 7.00% per annum. The 7.00% Notes were reduced to 4.00% per annum on September 11, 2009 upon FDA clearance of OVA1. Interest is payable on March 1 and September 1 of each year, commencing March 1, 2007.

The 7.00% Notes are convertible at the option of each holder, at any time on or prior to the close of business on the business day immediately preceding September 1, 2011, into shares of our common stock at a conversion price of \$20.00 per share, equivalent to a conversion rate equal to 50 shares of our common stock per \$1,000 principal of the 7.00% Notes, subject to adjustment for standard anti-dilution provisions including distributions to common stockholders and stock splits as well as occurrence of a change in control, in which case the conversion rate is adjusted for a make-whole premium.

The make-whole premium shall be equal to the principal amount of 7.00% Notes to be converted divided by \$1,000 and multiplied by the applicable number of shares of common stock based upon Vermillion's share prices as of the change of control date. Specifically, as the 7.00% Notes approach their redemption date of September 1, 2011, as discussed below, the make-whole payment decreases. We are not required to make a make-whole payment if its stock price is less than \$12.00 or greater than \$80.00 as of the date of the change in control. The make-whole premium associated with the 7.00% Notes sets a maximum additional 1,500,000 shares that may be issued on conversion (90.9091 shares per \$1,000 principal amount of 7.00% Notes).

Holders of the 7.00% Notes had the option to require us to repurchase the 7.00% Notes under certain circumstances, including at any time after September 1, 2009, if we did not receive approval or clearance for commercial sale of any of our ovarian cancer test by the FDA. We may redeem the 7.00% Notes at our option, in whole or in part, at any time on or after September 1, 2009, at specified redemption prices plus accrued and unpaid interest; provided that the 7.00% Notes will be redeemable only if the closing price of the stock equals or exceeds 200.0% of the conversion price then in effect for at least 20 trading days within a period of 30 consecutive trading days ending on the trading day before the date of the notice of the optional redemption. Upon a change of control, each holder of the 7.00% Notes may require us to repurchase some or all of the 7.00% Notes at specified redemption prices, plus accrued and unpaid interest. The 7.00% Notes contains a put option that entitles the holder to require us to redeem the 7.00% Note at a price equal to 105.0% of the principal balance upon a change in control of the Company.

We identified the guaranteed interest payment for any conversion of any 7.00% Note by a holder prior to October 31, 2008, and the written put option permitting the holder to put the debt at 105.0% of principal plus accrued and unpaid interest upon a change of control as embedded derivatives, which need to be separated and measured at fair value. The factors impacting the fair value of the guaranteed interest payment for any conversion of any 7.00% Note by a holder prior to October 31, 2008, is based upon certain factors including our stock price, the time value of money and the likelihood holders would convert within the next two years. The provision for the guaranteed interest payment for any conversion of any 7.00% Note elapsed on October 31, 2008. The factors impacting the fair value of the written put option permitting the holder to put the 7.00% Note at 105.0% of principal plus accrued and unpaid interest upon a change of control is contingent upon a change of control. However, due to significant related party holdings of our common stock shares and the presence of certain anti-takeover provisions in our bylaws, a change of control is deemed to be remote. The fair values of these features have been determined to be de minimis from the date of their inception through December 31, 2010.

From October through November 2009, we exchanged a total of 220,000 shares of common stock for \$4,400,000 in principal under the terms of the original 7.00% Notes. In November through December 2009, we exchanged a total of 421,667 shares of common stock for \$7,100,000 in principal and \$589,000 in unpaid interest. The conversion rate for the November and December 2009 redemption was approximately 55 shares per \$1,000 principal amount. We recorded an additional debt conversion expense of \$819,000 relating to the more favorable exchange rate.

The 7.00% Notes and common stock issuable upon conversion of the 7.00% Notes were registered with the SEC on Form S-3 on December 15, 2006. We were in default of the 7.00% Notes as of December 31, 2009. However, we cured the default upon payment of accrued interest totaling approximately \$362,000 upon emergence from bankruptcy under Chapter 11 on January 22, 2010. At December 31, 2010, 2009 and 2008, \$5,000,000, \$5,000,000 and \$16,500,000, respectively, in aggregate principal amount of the 7.00% Notes remained outstanding.

4.50% Convertible Senior Notes Due September 1, 2009

On August 22, 2003, we closed the sale of \$30,000,000 of the 4.50% Notes with an original maturity date of September 1, 2008. Offering costs were \$1,866,000. Interest on the notes is 4.50% per annum on the principal amount, payable semi-annually on March 1 and September 1, beginning March 1, 2004. The effective interest rate was 6.28% per annum. The 4.50% Notes were convertible, at the option of the holder, at any time on or prior

to maturity of the 4.50% Notes into shares of our common stock initially at a conversion rate of 10.88329 shares per \$1,000 principal amount of the 4.50% Notes, which is equal to a conversion price of \$91.88 per share. The conversion price, and hence the conversion rate, was subject to adjustment upon the occurrence of certain events, such as stock splits, stock dividends and other distributions or recapitalizations. Because the market value of the stock rose above the conversion price between the day the 4.50% Notes were priced and the closing date, we recorded a discount of \$2,677,000 related to the intrinsic value of the beneficial conversion feature resulting from this price change and the fact that the initial purchaser of the 4.50% Notes was not required to purchase the 4.50% Notes until the closing date. Immediately after the closing, our common stock had a market price of \$100.10 per share, or \$8.22 per share higher than the conversion price. The value of the beneficial conversion feature was determined by multiplying this difference in the per share price of our common stock by the 326,498 underlying shares. This amount was amortized to interest expense using the effective interest method over the five-year term of the notes, or shorter period in the event of conversion of the 4.50% Notes. Debt discount related to the 4.50% Notes was amortized to interest expense using the effective interest method. The amortization of the beneficial conversion feature amounted to none, none and \$29,000 for the years ended December 31, 2010, 2009 and 2008, respectively.

The 4.50% Notes were our senior unsecured obligations and ranked on parity in right of payment with all of our existing and future senior unsecured debt and ranked senior to our existing and future debt that expressly provided that it is subordinated to the 4.50% Notes. The 4.50% Notes were also effectively subordinated in right of payment to our existing and future secured debt, to the extent of such security, and to our subsidiaries' liabilities. The indenture did not limit the incurrence by us or our subsidiaries of other indebtedness.

Following the closing of the November 15, 2006, sale of \$16,500,000 of the 7.00% Notes due September 1, 2011, holders of an aggregate of \$27,500,000 of the 4.50% Notes agreed to exchange and redeem their 4.50% Notes for an aggregate of \$16,500,000 in aggregate principal amount of the 7.00% Notes and \$11,000,000 in cash. As a result of negotiations between us and the holders of the 4.50% Notes, the \$2,500,000 outstanding principal balance related to the 4.50% Notes, was not redeemed by us on the original maturity date of September 1, 2008. Interest of \$56,000 related to the 4.50% Notes was paid on September 1, 2008. Subsequently on December 11, 2008, the trustee of the Indenture and the holders of the \$2,500,000 outstanding principal balance related to the 4.50% Notes agreed to extend the maturity date of the 4.50% Notes to September 1, 2009, and to waive any past default by us of our obligation to make payment on the principal of and interest on the 4.50% Notes. We agreed to extend each holder's rights to require us to repurchase the 4.50% Notes at 105.00% of such holder's outstanding principal amount upon a change in control, as defined in the indenture governing the 4.50% Notes, and to convert the 4.50% Notes into common stock accordingly. In addition, the holders of the 4.50% Notes agreed to permit the full redemption of the outstanding principal related to the 4.50% Notes at a redemption price of 100.00% on or before August 31, 2009, and we agreed to adjust the conversion rate for the 4.50% Notes to 20 shares per \$1,000 principal amount of the 4.50% Notes, which is equal to a conversion price of \$50.00 per share. The impact from adjusting the conversion rate was de minimis.

In November 2009, we exchanged a total of 6,750 shares of common stock for \$135,000 in principal and \$8,000 in unpaid interest. The conversion rate for redemption was approximately 47 shares per \$1,000 principal amount. We recorded an additional debt conversion expense of \$69,000 relating to the more favorable exchange rate.

At December 31, 2010, 2009 and 2008, none, \$2,365,000 and \$2,500,000, respectively, in aggregate principal amount of the 4.50% Notes remain outstanding. We were in default of the 4.50% Notes as of December 31, 2009. Upon the emergence from bankruptcy under Chapter 11, we cured the default with a payment of \$2,365,000 of principal and \$140,000 of unpaid interest with \$2,195,000 of cash and 9,044 shares of common stock.

NOTE 9: COMMITMENTS AND CONTINGENCIES***Operating Leases***

We lease various equipment and facilities to support our business of discovering, developing and commercializing diagnostics tests in the fields of oncology, hematology, cardiology and women's health. On June 1, 2010, we entered into a noncancelable operating lease for a new principal facility located in Austin, Texas in conjunction with our relocation of our corporate headquarters to Austin, Texas. The term is from June 1, 2010 through May 31, 2012, with an annual base rent of \$57,000. We will also pay common area charges, taxes and insurance with an annual estimated cost of \$37,000.

On June 3, 2008, we entered into a noncancelable operating lease for a new principal facility located in Fremont, California. Under the lease agreement, the term was from July 1, 2008 through June 30, 2010, with an annual base rent of \$87,000 and \$92,000 for the first year and second year, respectively. We also paid common area charges, taxes and insurance with an annual estimated cost of \$21,000. This lease was extended to and expired on August 31, 2010. Additionally, under the lease agreement, we pledged a \$100,000 certificate of deposit as collateral on a letter of credit serving as a security deposit for the first year. For the second year, the certificate of deposit pledged as collateral on a letter of credit serving as a security deposit was reduced to \$60,000. As of December 31, 2009, the \$60,000 certificate of deposit was restricted cash and included in prepaid expenses and other current assets of the consolidated balance sheet. The letter of credit expired during the year ended December 31, 2010 and the \$60,000 security deposit was returned to us.

In connection with the Instrument Business Sale, we entered into a sublease agreement with Bio-Rad, pursuant to which we subleased approximately 29,000 square feet of its Fremont, California facility. Bio-Rad was permitted to use the sublet premises only for general office, laboratory, research and development, and other uses necessary to conduct its business, and was not permitted to sublet the premises without our consent. The lease on the Fremont, California facility and sublease expired on July 31, 2008. Rent under the sublease was payable monthly and consisted of base rent plus a proportionate share of certain other expenses including property taxes, management fees, insurance, maintenance and utilities. Rent and certain other facility related expenses were paid directly to us, and in accordance with the terms of the master lease, all payments received by us from Bio-Rad under the sublease were paid to the landlord. On September 22, 2008, we were refunded our \$553,000 security deposit related to the former principal facility. Rental expense under operating leases for the years ended December 31, 2010, 2009 and 2008, were as follows:

(in thousands)	Year Ended December 31,		
	2010	2009	2008
Gross rental expense	\$149	\$111	\$1,826
Sublease rental income	—	—	(949)
Net rental expense	<u>\$149</u>	<u>\$111</u>	<u>\$ 877</u>

As of December 31, 2010, future minimum rental payments under noncancelable operating leases are as follows:

(in thousands)	
2011	129
2012	62
2013	—
Total minimum rental payments	<u>\$191</u>

Noncancelable Collaboration Obligations and Other Commitments

Under the terms of a research collaboration agreement with The Johns Hopkins University School of Medicine ("JHU") directed at the discovery and validation of biomarkers in human subjects, including but not

limited to clinical application of biomarkers in the understanding, diagnosis and management of human diseases, we were required to pay JHU \$600,000, \$618,000 and \$637,000 for the years ending December 31, 2008, 2009 and 2010, respectively. In June 2010, the research collaboration agreement was amended by extending the term and reducing the payments to \$300,000 for 2010, \$400,000 for 2011, \$400,000 for 2012 and \$100,000 for 2013. In conjunction with the amendment, JHU forgave the previously outstanding amounts we owed of \$623,000, which we recognize as a reduction to research and development expenses straight line over the term of the amended agreement. Collaboration costs under the JHU collaboration were \$400,000, \$616,000 and \$600,000 for the years ended December 31, 2010, 2009 and 2008, respectively. Collaboration costs under the JHU collaboration are included in research and development expenses. In addition, under the terms of the amended research collaboration agreement, we are required to pay the greater of 4% royalties on net sales of diagnostic tests using the assigned patents or annual minimum royalties of \$50,000. As of December 31, 2010 and 2009, we owed \$4,000 and \$866,000, respectively, related to research collaboration agreements with JHU.

On June 1, 2007, we entered into a nonexclusive license agreement with the National Cardiovascular Center (“NCVC”), an entity organized and existing under the laws of Japan. Under this agreement, we obtained a ten year worldwide nonexclusive license with the right to extend the term for the life of the licensed patent, which includes a United States Patent Application, a Japan Patent and a Patent Cooperation Treaty (“PCT”) Application, for technology used in our thrombotic thrombocytopenic purpura (“TTP”) diagnostic test kit that is under development. Under this agreement, we will pay NCVC a non-refundable license fee of \$50,000. The payment terms are \$20,000 upon execution of this agreement, \$10,000 upon submission of an in vitro diagnostic test to the FDA for clearance, \$10,000 upon the first commercial sale of such in vitro diagnostic test kit and \$10,000 upon achievement of \$500,000 in net sales of such in vitro diagnostic test kits. Additionally, we will pay royalties to NCVC for net sales to customers located in the United States, Japan, Europe and China. On July 18, 2007, we made a payment of \$20,000 related to the execution of this agreement. There have been no subsequent payments made through December 31, 2010.

Contingent Liabilities

Molecular Analytical Systems, Inc. Litigation

On July 9, 2007, Molecular Analytical Systems (“MAS”) filed a lawsuit in the Superior Court of California for the County of Santa Clara naming Vermillion and Bio-Rad as defendants (the “State Court lawsuit”). Under the State Court lawsuit, MAS sought an unspecified amount of damages and alleged, among other things, that we are in breach of its license agreement with MAS relating to our SELDI technology as a result of our entry into a sublicense agreement with Bio-Rad. We filed a petition to compel arbitration, which was denied in the trial court. We then filed our general denial and affirmative defenses on April 1, 2008. The Company and Bio-Rad thereafter appealed the denial of the motion to compel arbitration, which appeal had the effect of staying the State Court lawsuit, which stay was further extended in both the state trial and appellate courts when we filed on March 30, 2009, a Voluntary Petition for Relief under Chapter 11 in the Bankruptcy Court. MAS filed a proof of claim on July 15, 2009, in connection with our Chapter 11 bankruptcy proceedings. The proof of claim mirrored the MAS lawsuit and asserted that we breached the Exclusive License Agreement by transferring certain technologies to Bio-Rad without obtaining MAS’s consent. MAS listed the value of its claim as in excess of \$5,000,000. On December 28, 2009, we objected to MAS’s Proof of Claim in the Bankruptcy Court. On January 7, 2010, the Bankruptcy Court confirmed our Plan of Reorganization. Per the Court’s order confirming the Plan, our bankruptcy case will be closed when, along with other requirements, a final, non-appealable judgment is entered on MAS’s claims. After the Plan of Reorganization was confirmed, MAS filed a motion with the Bankruptcy Court asking it to abstain from hearing its proof of claim and asked the Bankruptcy Court to grant relief from the automatic stay so that MAS could proceed with the State Court lawsuit in California. Over our objection, the Bankruptcy Court granted that motion on March 15, 2010. Thereafter, the California Court of Appeal set oral argument on our appeal of the trial court order denying our motion to compel arbitration for June 17, 2010. The California Court of Appeals overturned the Superior Court’s decision in an opinion dated July 9, 2010, and ordered that the dispute be arbitrated before the Judicial Arbitration and Mediation Service (“JAMS”). MAS filed its demand for arbitration on September 15, 2010. The demand did not include any additional detail regarding

MAS's claims, and submitted the same complaint for unspecified damages that MAS filed in the Superior Court in 2007. The parties have begun to exchange initial disclosures in the arbitration, but JAMS has not yet set a schedule for resolution of MAS's claims, and management cannot predict the ultimate outcome of this matter at this time.

Bio-Rad Laboratories, Inc. Matters

On November 13, 2006, we sold assets and liabilities of our protein research tools and collaborative services business (the "Instrument Business Sale"), to Bio-Rad Laboratories, Inc. ("Bio-Rad"), in order to concentrate our resources on developing clinical protein biomarker diagnostic products and services. The Instrument Business Sale included our SELDI technology, ProteinChip arrays and accompanying software. Pursuant to the terms of the sales agreement, the total sales price was \$20,000,000, of which \$16,000,000 was paid by Bio-Rad to us at the closing of the transaction on November 13, 2006. A total of \$4,000,000 was held back from the sales proceeds contingent upon our meeting certain obligations, of which \$2,000,000 was subsequently paid to us in fiscal 2007 upon the issuance by the United States Patent and Trademark Office of a reexamination certificate for United States Patent No. 6,734,022. From the amounts held back, the remaining \$2,000,000, subject to certain adjustments, is being held in escrow to serve as security for us to fulfill certain obligations.

In connection with the Instrument Business Sale, we entered into a letter agreement with Bio-Rad pursuant to which we agreed to indemnify Bio-Rad and its subsidiaries with respect to certain payments made by Bio-Rad in connection with the termination of employees of its former subsidiary in the United Kingdom in the six-month period immediately following the Instrument Business Sale. On May 4, 2007, Bio-Rad delivered a claim for indemnification under the agreement for \$307,000, which was paid out of \$2,000,000 held in escrow. In August 2009, Bio-Rad also filed a proof of claim in the bankruptcy case for indemnification of the MAS lawsuit. Management is disputing the claim and cannot predict the ultimate outcome of this matter at this time.

In connection with the Instrument Business Sale, we also entered into a manufacture and supply agreement with Bio-Rad on November 13, 2006, whereby we agreed to purchase ProteinChip Systems and ProteinChip Arrays (collectively, the "Research Tools Products") from Bio-Rad. Under the terms of the manufacture and supply agreement, we agreed to provide Bio-Rad quarterly, non-binding, twelve-month rolling forecasts setting forth our anticipated needs for Research Tools Products over the forecast period. We were permitted to provide revised forecasts as necessary to reflect changes in demand for the products, and Bio-Rad was required to use commercially reasonable efforts to supply amounts in excess of the applicable forecast. Either party was permitted to terminate the agreement for convenience upon 180 days' prior written notice, or upon default if the other party failed to cure such default within 30 days after notice thereof. In a letter from us to Bio-Rad dated May 2, 2008, we exercised our right to terminate the November 13, 2006 manufacture and supply agreement for convenience upon 180 days' written notice. Consequently, termination of the agreement became effective on October 29, 2008. In October 2009, Bio-Rad filed a proof of claim in our bankruptcy case based on certain contract claims for approximately \$1,000,000. We are attempting to resolve the contract claims and have accrued for this contingency within general and administrative expense at December 31, 2010 and 2009. Management cannot predict the ultimate outcome of this matter at this time.

Health Discovery Corporation Litigation

On June 26, 2006, Health Discovery Corporation ("HDC") filed a lawsuit against Vermillion in the United States District Court for the Eastern District of Texas, Marshall Division (the "Court"), claiming that software used in certain of our ProteinChip Systems infringes on three of its United States patents. HDC sought injunctive relief as well as unspecified compensatory and enhanced damages, reasonable attorney's fees, prejudgment interest and other costs. On August 1, 2006, we filed an unopposed motion with the Court to extend the deadline for us to answer or otherwise respond until September 2, 2006. We filed our answer and counterclaim to the complaint with the Court on September 1, 2006. Concurrent with our answer and counterclaims, we filed a motion to transfer the case to the Northern District of California. On January 10, 2007, the Court granted us motion to transfer the case to the Northern District of California. The parties met for a scheduled mediation on

May 7, 2007. On July 10, 2007, we entered into a license and settlement agreement with HDC pursuant to which we licensed more than 25 patents covering HDC's support vector machine technology for use with SELDI technology. Under the terms of the HDC Agreement, we receive a worldwide, royalty-free, non-exclusive license for life sciences and diagnostic applications of the technology and have access to any future patents resulting from the underlying intellectual property in conjunction with use of SELDI systems. Pursuant to the HDC Agreement, we paid \$200,000 to HDC upon entry into the agreement on July 13, 2007, \$100,000 three months following the date of the agreement on October 9, 2007, and \$150,000 twelve months following the date of the agreement on July 9, 2008. The remaining \$150,000 payable under the HDC Agreement, which was due twenty-four months following the date of the agreement and payable as of December 31, 2008, was subsequently paid on January 22, 2010. The HDC Agreement settled all disputes between the Company and HDC.

Debtor's Incentive Plan

In connection with the Bankruptcy Filing, on April 21, 2009, we filed the Debtor's Motion for Entry of an Order Approving the Debtor's Incentive Plan (the "Debtor's Incentive Plan") and Authorizing Payments thereunder pursuant to §§ 363(b) and 503(b) of the Bankruptcy Code (the "Incentive Plan Motion") which sought to provide proper incentives to the directors (Gail Page, John Hamilton and James Burns, collectively, the "Directors") to help achieve a successful sale or restructuring of the Company. At a hearing on June 22, 2009, the Court entered an Order approving the Incentive Plan Motion (the "Incentive Plan Order"). The Debtor's Incentive Plan is only triggered upon the occurrence of a qualified transaction defined as the closing of any sale pursuant to section 363 of the Bankruptcy Code or the effectiveness of a Reorganization Plan confirmed pursuant to section 1129 of the Bankruptcy Code. The Debtor's Incentive Plan payment was based upon a percentage of (A) the gross proceeds of Asset Sales, both prior to and after the Food and Drug Administration approval of the ovarian tumor triage test, and (B) the value of consideration - cash, debt and equity - distributed pursuant to a confirmed Reorganization Plan. In the end, the Incentive Plan Order provided that the Directors would receive: (i) zero, on Qualified Transaction Proceeds of 3,000,000 or less, (ii) 6% on Qualified Transaction Proceeds of \$3,000,001 to \$10,000,000, and (iii) 8% on Qualified Transaction Proceeds of greater than \$10,000,000. While the Incentive Plan Order provided us with the authority to make distributions under the Debtor's Incentive Plan, we agreed as part of the Plan of Reorganization to seek final judicial approval of the amounts to be paid pursuant to the Debtor's Incentive Plan. On April 13, 2010, our counsel, the Official Committee of the Equity Security Holders, and the Directors submitted a proposed settlement to the Bankruptcy Court. On April 14, 2010, after a hearing, an order was issued by the Bankruptcy Court approving the Debtor's Incentive Plan. Under the Debtor's Incentive Plan, we were directed to distribute an aggregate of \$5,000,000 in cash and 302,541 shares of restricted stock having a fair value of \$6,626,000 in Debtor's Incentive Plan payments to the Directors. All such restricted stock vests with respect to 1/24th of the total distributed on each monthly anniversary of the vesting commencement date, June 22, 2009. The total Debtor's Incentive Plan payments were allocated to Gail Page, James Burns and John Hamilton on a 60%-20%-20% basis, respectively. The contingency was accounted for upon the occurrence of the qualified transaction on January 7, 2010 when the Bankruptcy Courts issued a confirmation order approving our Reorganization Plan. For the year ended December 31, 2010, we incurred \$9,969,000 under the terms of the Debtor's Incentive Plan, of which \$6,932,000 was recorded in Reorganization Items for the period prior to emerging from bankruptcy under Chapter 11 and \$3,037,000 was recorded in general and administrative expenses for the period subsequent to emerging from bankruptcy under Chapter 11. In April 2010, we distributed an aggregate of \$5,000,000 in cash to the Directors. We distributed 226,904 shares of common stock to the Directors under the Debtor's Incentive Plan during the year ended December 31, 2010.

In addition, from time to time, we are involved in legal proceedings and regulatory proceedings arising out of our operations. We establish reserves for specific liabilities in connection with legal actions that we deem to be probable and estimable. Other than as disclosed above, we are not currently a party to any proceeding, the adverse outcome of which would have a material adverse effect on our financial position or results of operations.

NOTE 10: COMMON STOCK

Stockholders' Rights Plan

We adopted a Stockholder Rights Plan, the purpose of which is, among other things, to enhance our Board of Directors' ability to protect stockholder interests and to ensure that stockholders receive fair treatment in the event any coercive takeover attempt of the Company is made in the future. The Stockholder Rights Plan could make it more difficult for a third party to acquire, or could discourage a third party from acquiring, us or a large block of our common stock. The following summary description of the Stockholder Rights Plan does not purport to be complete.

The rights issued pursuant to Vermillion's Stockholder Rights Plan will become exercisable the tenth day after a person or group announces acquisition of 15.0% or more of our common stock or announces commencement of a tender or exchange offer the consummation of which would result in ownership by the person or group of 15.0% or more of our common stock. If the rights become exercisable, the holders of the rights (other than the person acquiring 15.0% or more of our common stock) will be entitled to acquire, in exchange for the rights' exercise price, shares of our common stock or shares of any company in which we are merged, with a value equal to twice the rights' exercise price.

Authorized Shares

At the annual stockholders' meeting on June 29, 2007, the stockholders approved an amendment to the Certificate of Incorporation to increase the number of authorized shares of our common stock from 80,000,000 to 150,000,000. On July 13, 2007, we amended and restated our Certificate of Incorporation with the State of Delaware for the increased authorized shares. Additionally, after the Reverse Stock Split the number of authorized shares of common stock and preferred stock remained at 150,000,000 and 5,000,000, respectively.

Private Placement Sale

On August 29, 2007 (the "Closing Date"), we completed a private placement sale of 2,451,309 shares of our common stock and warrants to purchase up to an additional 1,961,047 shares of our common stock with an exercise price of \$9.25 per share and expiration date of August 29, 2012, to a group of new and existing investors for \$20,591,000 in gross proceeds (collectively referred to as the "August 29, 2007, Private Placement Sale"). Existing investors included affiliates of the Company, who purchased 964,285 shares of our common stock and warrants to purchase up to an additional 771,428 shares of our common stock for \$8,100,000. In connection with Quest Diagnostics' participation in this transaction, we amended a warrant to purchase an additional 220,000 shares of our common stock that was originally issued to Quest Diagnostics on July 22, 2005. Pursuant to the terms of the amendment, the exercise price for the purchase of our common stock was reduced from \$35.00 per share to \$25.00 per share and the expiration date of such warrant was extended from July 22, 2010, to July 22, 2011. For services as placement agent, we paid Oppenheimer & Co. Inc. ("Oppenheimer") \$1,200,000 and issued a warrant to purchase up to 92,100 shares of our common stock with an exercise price of \$9.25 per share and expiration date of August 29, 2012. The warrants issued to the investors and Oppenheimer were valued at \$7,194,000 and \$581,000, respectively, based on the fair value as determined by the Black-Scholes model. The amended value of the warrant issued to Quest Diagnostics on July 22, 2005, increased by \$356,000, which is reflected in additional paid-in capital, from its original value of \$2,200,000. Assumptions used to value the warrants issued to the investors and Oppenheimer, and the amended value of the warrant issued to Quest Diagnostics were as follows:

	Private Investors and Oppenheimer & Co. Inc.	Amendment to Quest Diagnostics Incorporated
Dividend yield	— %	— %
Volatility	80.14%	82.92%
Risk-free interest rate	4.31%	4.24%
Expected lives (years)	5.0	3.9

In June 2008, the FASB issued new guidance now codified in ASC 815 that clarifies the determination of whether an instrument (or an embedded feature) is indexed to an entity's own stock, which would qualify for classification as liabilities. The new guidance in ASC 815 was effective for financial statements issued for fiscal years beginning after December 15, 2008. The adoption of the new guidance on January 1, 2009, resulted in the reclassification of our outstanding warrants from the August 2007 offering from stockholders' equity to liabilities, which requires the warrants to be fair valued at each reporting period, with the changes in fair value recognized as interest and other expense in our consolidated statement of operations.

At December 31, 2010 and 2009, and at January 1, 2009, we had warrants outstanding to purchase 195,012, 273,467 and 2,053,147 shares of common stock, respectively, which were required to be classified as a liability. The fair value of these warrants on the date of adoption of January 1, 2009 and on December 31, 2010 and 2009 was determined using a Black Scholes valuation model with the following level 3 inputs:

	<u>December 31, 2010</u>	<u>December 31, 2009</u>	<u>January 1, 2009</u>
Risk-free interest rate	0.52%	1.51%	1.18%
Expected life (in years)	1.66	2.66	3.66
Dividend yield	— %	— %	— %
Volatility	64.62%	83.70%	78.35%
Stock price	\$ 7.52	\$27.50	\$ 0.27

On January 1, 2009, we recorded a cumulative effect of change in accounting principle adjustment of \$21,000 to our accumulated deficit and a corresponding reclassification of our outstanding warrants from stockholder's deficit to warrant liability. For the year ended December 31, 2009, we recorded under ASC 815 a loss of \$12,106,000 in the consolidated statement of operations. For the year ended December 31, 2010, we recorded under ASC 815 a gain of \$4,355,000 in the consolidated statement of operations.

The following table sets forth our financial liabilities related to warrants subject to fair value measurements as of December 31, 2010 and 2009:

(in thousands)	<u>Fair Value Measurements at Reporting Date Using</u>			
	<u>Total Fair Value</u>	<u>Quoted Prices in Active Markets for Identical Assets (Level 1)</u>	<u>Significant Other Observable Inputs (Level 2)</u>	<u>Significant Unobservable Inputs (Level 3)</u>
Liabilities at December 31, 2010				
Common stock warrants	\$ 378	\$—	\$—	\$ 378
Total	<u>\$ 378</u>	<u>\$—</u>	<u>\$—</u>	<u>\$ 378</u>
Liabilities at December 31, 2009				
Common stock warrants	\$5,659	\$—	\$—	\$5,659
Total	<u>\$5,659</u>	<u>\$—</u>	<u>\$—</u>	<u>\$5,659</u>

The following table is a reconciliation of the warrant liability measured at fair value using Level 3 inputs:

(in thousands)	<u>Year Ended December 31,</u>	
	<u>2010</u>	<u>2009</u>
Balance at beginning of period	\$ 5,659	\$ —
Cumulative effect of change in accounting principle for common stock warrants	—	21
Change in fair value of common stock warrants	(4,132)	20,062
Issuance of common stock from warrant exercise	—	(6,468)
Warrant exercise gain	(223)	(7,956)
Reclassification of warrant fair value to equity upon exercise and issuance of common stock	(926)	—
Balance at end of period	<u>\$ 378</u>	<u>\$ 5,659</u>

Warrants

Warrants outstanding and exercisable as of December 31, 2010 and 2009 were as follows:

<u>Issuance Date</u>	<u>Expiration Date</u>	<u>Exercise Price per Share</u>	<u>Number of Shares Outstanding under Warrant</u>	
			<u>December 31, 2010</u>	<u>December 31, 2009</u>
July 22, 2005	July 22, 2011	\$25.00	220,000	220,000
August 3, 2006	August 3, 2011	12.60	385	6,090
November 15, 2006	November 15, 2011	12.60	385	6,090
August 29, 2007	August 29, 2012	9.25*	195,012	273,467
			<u>415,782</u>	<u>505,647</u>

* The exercise price of the warrants issued on August 29, 2007 is adjustable in accordance with the term of the warrants.

NOTE 11: ACCUMULATED OTHER COMPREHENSIVE LOSS

The components of accumulated other comprehensive loss as of December 31, 2010 and 2009, were as follows:

<u>(In thousands)</u>	<u>Year Ended December 31,</u>	
	<u>2010</u>	<u>2009</u>
Net unrealized gain on long-term investments available-for-sale	\$ —	\$ 119
Cumulative translation adjustment	<u>(156)</u>	<u>(165)</u>
Accumulated other comprehensive loss	<u>\$(156)</u>	<u>\$ (46)</u>

NOTE 12: LOSS PER SHARE

The reconciliation of the numerators and denominators of basic and diluted loss per share for the years ended December 31, 2010, 2009 and 2008 was as follows:

<u>(In thousands, except per share data)</u>	<u>Loss (Numerator)</u>	<u>Shares (Denominator)</u>	<u>Per Share Amount</u>
Year ended December 31, 2008:			
Net loss - basic	\$(18,330)	6,381,802	\$(2.87)
Dilutive effect of shares purchasable under the Employee Stock Purchase Plan, stock options, warrants and convertible senior notes	<u>—</u>	<u>—</u>	
Net loss - diluted	<u>\$(18,330)</u>	<u>6,381,802</u>	\$(2.87)
Year ended December 31, 2009:			
Net loss - basic	\$(22,048)	6,662,231	\$(3.31)
Dilutive effect of common stock shares issuable upon exercise of stock options, purchase by Employee Stock Purchase Plan, exercise of warrants and conversion of convertible senior notes	<u>—</u>	<u>—</u>	
Net loss - diluted	<u>\$(22,048)</u>	<u>6,662,231</u>	\$(3.31)
Year ended December 31, 2010:			
Net loss - basic	\$(19,034)	10,404,741	\$(1.83)
Dilutive effect of common stock shares issuable upon exercise of stock options, exercise of warrants, conversion of convertible senior notes and unvested restricted stock awards	<u>—</u>	<u>—</u>	
Net loss - diluted	<u>\$(19,034)</u>	<u>10,404,741</u>	\$(1.83)

Due to net losses for the years ended December 31, 2010, 2009 and 2008, diluted loss per share is calculated using the weighted average number of common shares outstanding and excludes the effects of potential common stock shares that are antidilutive. The potential shares of common stock that have been excluded from the diluted loss per share calculation above for the years ended December 31, 2010, 2009 and 2008 were as follows:

	Year Ended December 31,		
	2010	2009	2008
Stock options	849,485	678,301	815,638
Employee Stock Purchase Plan	—	—	2,250
Stock warrants	415,782	505,647	2,293,147
Convertible senior notes	250,000	297,300	875,000
Restricted stock units	81,889	—	—
Potential common shares	<u>1,597,156</u>	<u>1,481,248</u>	<u>3,986,035</u>

NOTE 13: EMPLOYEE BENEFIT PLANS

1993 Stock Option Plan

We have no shares of our common stock reserved for future grants to employees, directors or consultants under our 1993 Stock Option Plan (the “1993 Plan”). Under the 1993 Plan, options were granted at prices not lower than 85% and 100% of the fair market value of the common stock for non-statutory and statutory stock options, respectively. All outstanding options under the 1993 Plan are now fully vested, and unexercised options generally expire ten years from the date of grant. The authority of our Board of Directors to grant new stock options and awards under the 1993 Plan terminated in 2001. At December 31, 2010, 2009 and 2008, no shares of our common stock were subject to repurchase by us. There were no 1993 Plan option exercises for the years ended December 31, 2010, 2009 and 2008. There are no shares of stock options that remain outstanding under the 1993 Plan.

2000 Stock Plan

Under the Amended and Restated 2000 Stock Plan (the “2000 Plan”), options may be granted at prices not lower than 85% and 100% of the fair market value of the common stock for non-statutory and statutory stock options, respectively. Options generally vest monthly over a period of four years and unexercised options generally expire ten years from the date of grant. The authority of our Board of Directors to grant new stock options and awards under the 2000 Plan terminated in 2010. At December 31, 2010 and 2009, we had none and 6,553,859 shares of our common stock reserved for future stock option grants to employees, directors and consultants under the 2000 Plan. There were 21,083 option exercises for the year ended December 31, 2010. There were no 2000 Plan option exercises for the years ended December 31, 2009 and 2008. No additional shares of our common stock were reserved for issuance under the 2000 Plan for the years ended December 31, 2010, 2009 and 2008.

2000 Employee Stock Purchase Plan

The Amended and Restated 2000 Employee Stock Purchase Plan (the “2000 ESPP”) provides for eligible employees to purchase our common stock through payroll deductions during six-month offering periods. Each offering period begins on May 1 or November 1 and ends October 31 or April 30, respectively.

The 2000 ESPP provides for the purchase of our common stock at the lower of 85.00% of the closing price of our common stock on the first day of the offering period or 85.00% of the closing price of our common stock on the last day of the offering period. No additional common stock shares were reserved for issuance under the 2000 ESPP for the years ended December 31, 2010, 2009 and 2008.

2010 Stock Incentive Plan

On February 8, 2010, our Board of Directors approved the Vermillion, Inc. 2010 Stock Incentive Plan (the “2010 Plan”). The 2010 Plan is administered by the Compensation Committee of the Board of Directors. Our employees, directors, and consultants are eligible to receive awards under the 2010 Plan. The 2010 Plan permits the granting of a variety of awards, including stock options, share appreciation rights, restricted shares, restricted share units, unrestricted shares, deferred share units, performance and cash-settled awards, and dividend equivalent rights. The 2010 Plan provides for issuance of up to 1,322,983 shares of common stock, par value \$0.001 per share under the 2010 Plan, subject to adjustment as provided in the 2010 Plan. There were no 2010 Plan option exercises for the year ended December 31, 2010.

During the year ended December 31, 2010, we awarded 25,000 shares of restricted stock from the 2010 Plan having a fair value of \$146,000 to employees in connection with our emergence from bankruptcy. All such restricted stock vests with respect to 1/24th of the total distributed on each monthly anniversary of the vesting commencement on June 22, 2009. We distributed 19,748 of these shares of common stock to employees during the year ended December 31, 2010.

During the year ended December 31, 2010, we issued 81,000 fully vested shares of restricted stock from the 2010 Plan having a fair value of \$426,000 to the Board of Directors as payment for services rendered in 2010.

The activity related to shares available for grant under the 1993 Plan, 2000 Plan, 2000 ESPP and 2010 Plan for the years ended December 31, 2010, 2009 and 2008, were as follows:

	1993 Stock Option Plan	2000 Stock Plan	2000 Employee Stock Purchase Plan	2010 Stock Option Plan	Total
Shares available at December 31, 2007	—	6,776,983	1,373,023	—	8,150,006
Options canceled / forfeited	3,000	116,149	—	—	119,149
Reduction in shares reserved	(3,000)	—	—	—	(3,000)
Options granted	—	(465,000)	—	—	(465,000)
Shares purchased	—	—	(3,750)	—	(3,750)
Shares available at December 31, 2008	—	6,428,132	1,369,273	—	7,797,405
Additional shares reserved	—	—	—	—	—
Options canceled	11,610	125,727	—	—	137,337
Reduction in shares reserved	(11,610)	—	—	—	(11,610)
Shares available at December 31, 2009	—	6,553,859	1,369,273	—	7,923,132
Additional shares reserved	—	—	—	1,322,983	1,322,983
Options canceled	1,720	9,013	—	500	11,233
Reduction in shares reserved	(1,720)	—	—	—	(1,720)
Options granted	—	—	—	(203,500)	(203,500)
Restricted stock units	—	—	—	(106,000)	(106,000)
Shares expired	—	(6,562,872)	(1,369,273)	—	(7,932,145)
Shares available at December 31, 2010	—	—	—	1,013,983	1,013,983

The stock option activity under the 1993 Plan, 2000 Plan and 2010 Plan for the years ended December 31, 2010, 2009 and 2008 was as follows:

	Number of Shares	Weighted Average Exercise Price	Aggregate Intrinsic Value	Weighted Average Remaining Contractual Term
Options outstanding at December 31, 2007	469,675	\$26.30	\$ —	7.72
Granted	465,000	1.99		
Exercised	—	—		
Canceled	(119,037)	15.63		
Options outstanding at December 31, 2008	815,638	14.00	—	8.22
Granted	—	—		
Exercised	—	—		
Canceled	(137,337)	12.90		
Options outstanding at December 31, 2009	678,301	14.22	12,648	5.86
Granted	203,500	20.93		
Exercised	(21,083)	1.99		
Canceled	(11,233)	14.76		
Options outstanding at December 31, 2010	<u>849,485</u>	\$ —	1,924	5.81
Shares exercisable:				
December 31, 2010	595,996	\$16.70	\$ 1,474	4.58
Shares expected to vest:				
December 31, 2010	253,489	\$14.78	\$ 451	8.71

The range of exercise prices for options outstanding and exercisable at December 31, 2010 are as follows:

Exercise Price		Options Outstanding	Weighted Average Exercise Price	Weighted Average Remaining Life in Years	Options Exercisable	Weighted Average Exercise Price
\$ 0.01 -	\$ 0.75	45,832	\$ 0.75	3.03	45,832	\$ 0.75
0.76 -	2.04	113,250	2.04	3.87	113,250	2.04
2.05 -	2.30	175,209	2.30	7.55	103,955	2.30
2.31 -	5.52	38,000	5.44	9.75	—	—
5.53 -	10.20	86,705	9.38	3.54	84,205	9.36
10.21 -	14.70	135,148	13.15	5.67	113,039	13.32
14.71 -	29.60	193,798	25.31	7.58	74,172	24.62
29.61 -	96.00	61,543	86.59	2.07	61,543	86.59
\$ 0.01 -	\$ 96.00	<u>849,485</u>	\$ 16.13	5.81	<u>595,996</u>	\$ 16.70

(in thousands)	Total Intrinsic Value of Options Exercised	Total Fair Value of Vested Options
Year ended December 31, 2010	\$183	\$1,124
Year ended December 31, 2009	\$—	\$ 644
Year ended December 31, 2008	\$—	\$ 754

Stock-Based Compensation

Employee Stock-based Compensation Expense

The assumptions used to calculate the fair value of options granted and shares purchasable under the 2000 Plan and 2000 ESPP that were incorporated in the Black-Scholes pricing model for the year ended December 31, 2008 was as follows:

	<u>2000 Stock Plan</u>	<u>Employee Stock Purchase Plan</u>
	<u>2008</u>	<u>2008</u>
Dividend yield	— %	— %
Volatility	79.01%	74.84%
Risk-free interest rate	3.37%	2.17%
Expected lives (years)	5.26	0.50
Weighted average fair value	\$ 1.33	\$ 0.25

The assumptions used to calculate the fair value of options granted under the 2010 Plan that were incorporated in the Black-Scholes pricing model for the year ended December 31, 2010 was as follows:

	<u>Year Ended December 31, 2010</u>
Dividend yield	— %
Volatility	81%
Risk-free interest rate	2.25%
Expected lives (years)	5.6
Weighted average fair value	\$14.49

We did not grant any stock options to employees for the year ended December 31, 2009. We did not have any employees participate in the 2000 ESPP for the years ended December 31, 2010 and 2009. The allocation of stock-based compensation expense by functional area for the years ended December 31, 2010, 2009 and 2008 was as follows:

<u>(in thousands)</u>	<u>Year Ended December 31,</u>		
	<u>2010</u>	<u>2009</u>	<u>2008</u>
Research and development	\$ 992	\$ 34	\$120
Sales and marketing	77	10	93
General and administrative	3,868	280	423
Total	<u>\$4,937</u>	<u>\$324</u>	<u>\$636</u>

We have a 100.0% valuation allowance recorded against its deferred tax assets, and as a result ASC 718 had no effect on income tax expense in the consolidated statement of operations or the consolidated statement of cash flows. As of December 31, 2010, total unrecognized compensation cost related to nonvested stock option awards was \$2,822,000 and the related weighted average period over which it is expected to be recognized was 2.74 years.

Non-employee Stock-based Compensation Expense

Stock-based compensation expense related to stock options granted to non-employees is recognized as the stock options are earned. As part of the Chapter 11 bankruptcy case, certain former employees were converted into consultants to Company whereby their existing stock options continued to vest, under the original terms of their stock option grants, as they provided consulting services to us. The values attributable to these options are

amortized over the service period and the unvested portion of these options was remeasured at each vesting date. We believe that the fair value of the stock options is more reliably measurable than the fair value of the services received. There were no such options remaining outstanding at December 31, 2010. The fair value of the stock options granted were revalued at each reporting date using the Black-Scholes valuation model as prescribed by ASC 505, "Equity," using the following average assumptions:

	Year Ended December 31,	
	2010	2009
Dividend yield	— %	— %
Volatility	82%	84.79%
Risk-free interest rate	3.19%	3.28%
Expected lives (years)	7.81	8.22
Weighted average fair value	\$14.44	\$11.85

The stock-based compensation expense will fluctuate as the fair market value of the common stock fluctuates. In connection with stock options relating to non-employees, we recorded stock-based compensation allocated by functional area for the years ended December 31, 2010 and 2009 as follows:

<u>(in thousands)</u>	Year Ended December 31,	
	2010	2009
Research and development	\$ 38	\$185
Sales and marketing	5	14
General and administrative	100	48
Total	<u>\$143</u>	<u>\$247</u>

401(k) Plan

Our 401(k) Plan allows eligible employees to defer up to an annual limit of the lesser of 90.0% of eligible compensation or a maximum contribution amount subject to the Internal Revenue Service annual contribution limit. We are not required to make contributions under the 401(k) Plan. As of December 31, 2010, 2009 and 2008, we have not contributed to the 401(k) Plan.

NOTE 14: INCOME TAXES

Domestic and foreign components of loss from continuing operations before income taxes for the years ended December 31, 2010, 2009 and 2008 are as follows:

<u>(in thousands)</u>	Year Ended December 31,		
	2010	2009	2008
Domestic	\$(18,907)	\$(21,927)	\$(17,755)
Foreign	(127)	(110)	(615)
	<u>\$(19,034)</u>	<u>\$(22,037)</u>	<u>\$(18,370)</u>

The components of the benefits (provision) for income attributable to loss from continuing operations before income taxes for the years ended December 31, 2010, 2009 and 2008 are as follows:

(in thousands)	<u>Year Ended December 31,</u>		
	<u>2010</u>	<u>2009</u>	<u>2008</u>
Federal			
Current	\$—	\$—	\$ 235
Deferred	—	—	(259)
State	—	—	—
Foreign			
Current	—	11	(16)
Deferred	—	—	—
	<u>\$—</u>	<u>\$ 11</u>	<u>\$ (40)</u>

Based on the available objective evidence, management believes it is more likely than not that the net deferred tax assets will not be fully realizable. Accordingly, we have provided a full valuation allowance against our net deferred tax assets at December 31, 2010, 2009 and 2008.

The components of deferred tax assets (liabilities) at December 31, 2010 and 2009 were as follows:

(in thousands)	<u>Year Ended December 31,</u>	
	<u>2010</u>	<u>2009</u>
Deferred tax assets:		
Depreciation and amortization	\$ 14,068	\$ 16,387
Other	1,606	909
Research and development and other credits	—	179
Net operating losses	41,789	37,764
Total deferred tax assets	57,463	55,239
Valuation allowance	(57,433)	(55,201)
Net deferred tax assets	<u>\$ 30</u>	<u>\$ 38</u>
Deferred tax liabilities:		
Investment in foreign subsidiaries	\$ —	\$ (10)
Other	(30)	(28)
Net deferred tax liabilities	<u>\$ (30)</u>	<u>\$ (38)</u>

The reconciliation of the statutory federal income tax rate to the Company's effective tax rate for the years ended December 31, 2010, 2009 and 2008 was as follows:

	<u>Year Ended December 31,</u>		
	<u>2010</u>	<u>2009</u>	<u>2008</u>
Tax at federal statutory rate	34%	34%	34%
State tax, net of federal benefit	7	3	6
Valuation allowance	(14)	(17)	(43)
Change in warrant valuation	8	(19)	—
Net operating loss and credit reduction due to section 382 limitations	(32)	—	—
Permanent items	(4)	—	—
Other	1	(1)	3
Effective income tax rate	<u>— %</u>	<u>— %</u>	<u>— %</u>

As of December 31, 2010, we had a net operating loss of approximately \$103,000,000 for federal and \$75,000,000 for state tax purposes. If not utilized, these carryforwards will begin to expire beginning in 2011 for both federal and state purposes. In 2011, approximately \$3,100,000 of federal and \$2,100,000 of state net operating loss will expire. If not utilized, the remaining federal net operating loss will begin to expire in 2017, and the state net operating loss will continue to expire in 2012.

As of December 31, 2010, we had \$6,100,000 of net operating loss carryforwards from our Japan operations. If not utilized, this carryforward will begin to expire in 2012.

We believe that it is more likely than not that the benefit from certain deferred tax assets will not be realized due to the history of our operating losses. In recognition of this risk, we have provided a valuation allowance on the deferred tax assets. The valuation allowance was \$57,433,000 at December 31, 2010 which represents an increase of \$2,232,000 over 2009 primarily due to additional valuation allowance requirements on domestic deferred tax assets as well as true up adjustments on domestic deferred tax assets.

At the time of filing our 2009 tax return, the Company identified that the net operating loss carry forward as of December 31, 2009 available for federal and state purposes previously reported was overstated by \$6.5 million due to inadvertent deduction of warrant exercises as an expense resulting in the overstatement of related deferred tax asset by \$2.6 million and the corresponding valuation allowance for the same amount. As a result, we have revised our 2009 deferred tax asset footnote by reducing the amount of previously reported net operating losses and the related deferred tax asset and valuation allowance. The reduction to the 2009 deferred tax assets have no effect on our statement of operations, earnings per share, balance sheet, statement of cash flows or statement of stockholders' equity (deficit) for any period presented.

We file income tax returns in the U.S. and in various state jurisdictions with varying statutes of limitations. We have not been audited by the Internal Revenue Service or any state income or franchise tax agency. As of December 31, 2010, our federal returns for the years ended 2007 through the current period and most state returns for the years ended 2006 through the current period are still open to examination. In addition, all of the net operating losses and research and development credit carryforwards that may be used in future years are still subject to adjustment. The federal and California tax returns for the year ended December 31, 2009 reflect research and development carryforwards of \$545,000 and \$5,089,000, respectively.

A reconciliation of the change in our unrecognized tax benefits is as follows:

<u>(in thousands)</u>	<u>Federal Tax</u>	<u>State Tax</u>	<u>Total</u>
Balance at January 1, 2009	\$—	\$ —	\$ —
Increase in tax position during 2009	<u>—</u>	<u>—</u>	<u>—</u>
Balance at December 31, 2009	\$—	\$ —	\$ —
Increase in tax position during 2010	<u>545</u>	<u>5,089</u>	<u>—</u>
Balance at December 31, 2010	<u>\$545</u>	<u>\$5,089</u>	<u>\$5,634</u>

If the \$5.6 million of unrecognized income tax benefits is recognized, approximately \$5.6 million would decrease the effective tax rate in the period in which each of the benefits is recognized.

We do not expect our unrecognized tax benefits to change significantly over the next 12 months. We recognize interest and penalties related to unrecognized tax benefits within the interest expense line and other expense line, respectively, in the consolidated statement of operations. Accrued interest and penalties are included within the related liability lines in the consolidated balance sheet. We have not recorded any interest or penalties as a result of uncertain tax positions as of December 31, 2010, 2009 and 2008.

NOTE 15: OTHER RELATED PARTY TRANSACTIONS***Consulting Agreement***

On March 26, 2009, we entered into a consulting agreement with our former chief executive officer and current Director. For the years ended December 31, 2010 and 2009, we incurred \$24,000 and \$189,000 in general and administrative expenses under the consultant arrangement, respectively. At December 31, 2009, we owed the consultant \$377,000, which included amounts owed for severance of \$366,000. On February 1, 2010, we re-hired the consultant as our chief executive officer. There was no amount owed to our chief executive officer at December 31, 2010.

On September 14, 2009, we entered into a consulting agreement with our former Vice President and Chief Science Officer. For the year ended December 31, 2010 and 2009, we incurred \$48,000 and \$11,000 in research and development expenses under the consulting arrangement, respectively. On February 1, 2010, this consulting agreement was terminated when we re-hired our Senior Vice President and Chief Science Officer.

NOTE 16: UNAUDITED QUARTERLY FINANCIAL INFORMATION

Certain unaudited quarterly financial information for the years ended December 31, 2010 and 2009 is presented below:

(In thousands, except per share data)	2010 Quarter Ended			
	March 31	June 30	September 30	December 31
Revenue	\$ 73	\$ 344	\$ 413	\$ 345
Gross Profit	73	332	400	282
Net loss	(11,586)	(698)	(2,736)	(4,014)
Loss per share - basic and diluted	(1.14)	(0.07)	(0.26)	(0.38)

	2009 Quarter Ended			
	March 31	June 30	September 30	December 31
Revenue	\$ —	\$ —	\$ —	\$ —
Gross Profit	—	—	—	—
Net loss	(2,815)	(1,793)	(11,015)	(6,425)
Loss per share - basic and diluted	(0.44)	(0.28)	(1.72)	(0.86)

NOTE 17: SUBSEQUENT EVENTS

On November 2, 2010, we received notice of an award of two grants for the aggregate sum of \$489,000 under the Internal Revenue Service Qualifying Therapeutic Discovery Projects Grant Program for our OVA2 and PAD programs. These grants were included in other income for the year ended December 31, 2010 and cash equal to the total amount awarded was received by us on February 3, 2011.

On February 18, 2011 we completed a follow-on public offering sale of 4,000,000 shares of our common stock in an underwritten public offering at a price of \$5.45 per share. We expect net proceeds of the offering will be approximately \$20,200,000 after deducting underwriting discounts and expected offering expenses. Roth Capital Partners acted as the sole manager of the offering. The underwriter has been granted a 30-day option to purchase up to 500,000 additional shares from the Company and 100,000 shares from a selling stockholder to cover over-allotments, if any.

CORPORATE INFORMATION

Board of Directors

Gail S. Page
Chair of the Board of Directors
CEO, Vermillion

James S. Burns
President & CEO
AssureRx

John F. Hamilton
Former VP & Chief Financial Officer
Depomed, Inc.

Peter S. Roddy
VP & Chief Financial Officer
Pain Therapeutics, Inc.

Carl Severinghaus
President of Tecan Americas

William C. Wallen, Ph.D.
Former Chief Science Officer &
Sr. VP, Research & Development
IDEXX Laboratories

Management

Gail S. Page
Chief Executive Officer

Eric T. Fung, M.D., Ph.D.
Sr. Vice President & Chief Scientific
Officer

Sandra A. Gardiner
Vice President & Chief Financial
Officer

William B. Creech
Vice President, Sales & Marketing

Ashish Kohli, C.F.A.
Vice President, Corporate Strategy

Corporate Headquarters

Vermillion, Inc.
12117 Bee Caves Road
Austin, TX 78738
Tel: (512) 519-0400

Independent Accountants

PricewaterhouseCoopers LLP
San Jose, California

Corporate Counsel

Paul, Hastings, Janofsky & Walker, LLP
Palo Alto, California

Transfer Agent

Communications concerning stock
transfer requirements, lost certificates
and changes of address should be
directed to the Transfer Agent:

Wells Fargo Shareowner Services
161 N. Concord Exchange
South St. Paul, MN 55075
Tel: (800) 468-9716
www.wellsfargo.com/shareownerservices

Market Information

The Company's common stock trades
on the NASDAQ Stock Market under
the symbol VRML

SEC Form 10-K

A copy of the Company's annual
report to the Securities and
Exchange Commission on Form 10-K
is available without charge upon
written or email request to:

Susan Carruthers
Vermillion, Inc.
12117 Bee Caves Road
Austin, TX 78738
scarruthers@vermillion.com

Annual Meeting

The Annual Meeting of Stockholders
will be held at The Hampton Inn,
2013 FM Road 620,
South Lakeway, Austin, TX 78734 on
Monday, June 6, 2011, at 8:00 a.m.,
Central Standard Time.

News Releases and Web Site

Vermillion's press releases are
available by email request
scarruthers@vermillion.com or by
calling (512) 519-0421

Vermillion can be visited on the
World Wide Web at its home page
www.vermillion.com

Forward Looking Statement

This report and other documents we file with the Securities and Exchange Commission (the "SEC") contain forward-looking statements that are based on current expectations, estimates, forecasts and projections about us, our future performance, our business or others on our behalf, our beliefs and our management's assumptions. Words such as "expect," "anticipate," "outlook," "could," "target," "project," "intent," "plan," "believe," "seek," "estimate," "should," "may," "assume," "continue," variations of such words and similar expressions are intended to identify such forward-looking statements. These statements are not guarantees of future performance and involve certain risks, uncertainties and assumptions that are difficult to predict. We describe our respective risks, uncertainties and assumptions that could affect the outcome or results of operations in our 2010 Annual Report on Form 10-K and the subsequent quarterly reports on Form 10-Q. We have based our forward-looking statements on our management's beliefs and assumptions based on information available to our management at the time the statements are made. We caution you that actual outcomes and results may differ materially from what is expressed, implied or forecasted by our forward looking statements. Except as required under the federal securities laws and the rules and regulations of the SEC, we do not have any intention or obligation to update publicly any forward-looking statements after the distribution of this report and other documents, whether as a result of new information, future events, changes in assumptions or otherwise.