

ONCOTHYREON INC.

FORM DEF 14A (Proxy Statement (definitive))

Filed 05/13/10 for the Period Ending 06/03/10

Address	2601 FOURTH AVENUE SUITE 500 SEATTLE, WA 98121
Telephone	(206) 801-2100
CIK	0001412067
Symbol	ONTY
SIC Code	8731 - Commercial Physical and Biological Research
Industry	Biotechnology & Drugs
Sector	Healthcare
Fiscal Year	06/12

Table of Contents

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

SCHEDULE 14A

PROXY STATEMENT PURSUANT TO SECTION 14(a) OF THE
SECURITIES EXCHANGE ACT OF 1934

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material Pursuant to §240.14a-12

ONCOTHYREON INC.

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(4) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (Set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

Fee paid previously with preliminary materials.

Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:





2601 Fourth Avenue
Suite 500
Seattle, Washington 98121
www.oncothyreon.com

DEAR STOCKHOLDER:

I am pleased to invite you to attend the 2010 annual meeting of stockholders of Oncothyreon Inc. to be held on Thursday, June 3, 2010, at 9:00 A.M., local time, at the Hotel Andra, 2000 Fourth Avenue, Seattle, Washington 98121 for the following purposes:

1. elect as Class III directors the two nominees named in this proxy statement;
2. approve the adoption of the 2010 Employee Stock Purchase Plan;
3. ratify the selection of our independent registered public accountants; and
4. transact such other business as may properly come before the annual meeting or any continuation, postponement or adjournment thereof.

The accompanying Notice of Meeting and Proxy Statement describe these matters. We urge you to read this information carefully.

The board of directors unanimously believes that election of its nominees for directors, adoption of the 2010 Employee Stock Purchase Plan and ratification of its selection of the independent registered public accountants are in our best interests and that of our stockholders, and, accordingly, recommends a vote FOR election of the two nominees for directors, FOR the adoption of the 2010 Employee Stock Purchase Plan and FOR the ratification of the selection of Deloitte & Touche LLP as our independent registered public accountants.

In addition to the business to be transacted as described above, management will speak on our developments of the past year and respond to comments and questions of general interest to stockholders.

It is important that your shares be represented and voted whether or not you plan to attend the annual meeting in person. You may vote on the Internet, by telephone or by completing and mailing the enclosed proxy card or the form forwarded by your bank, broker or other holder of record. Voting over the Internet, by telephone or by written proxy will ensure your shares are represented at the annual meeting. Voting on the Internet or by telephone may not be available to all stockholders. Please review the instructions on the proxy card or the information forwarded by your bank, broker or other holder of record regarding each of these voting options.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Kirkman", written in a cursive style.

Robert Kirkman
President, CEO and Director

May 13, 2010



2601 Fourth Avenue
Suite 500
Seattle, Washington 98121
www.oncothyreon.com

**NOTICE OF ANNUAL MEETING OF STOCKHOLDERS
To Be Held On June 3, 2010**

TO THE STOCKHOLDERS OF ONCOTHYREON INC.

NOTICE IS HEREBY GIVEN that the 2010 annual meeting of stockholders of Oncothyreon Inc., a Delaware corporation, will be held on June 3, 2010, at 9:00 A.M., local time, at the Hotel Andra, 2000 Fourth Avenue, Seattle, Washington 98121, for the following purposes:

1. to elect the two nominees named in the attached proxy statement as Class III directors to the board of directors of Oncothyreon for a three-year term of office expiring at the 2013 annual meeting of stockholders;
2. approve the adoption of the 2010 Employee Stock Purchase Plan;
3. to ratify the selection of Deloitte & Touche LLP as our independent registered public accountants for the year ending December 31, 2010; and
4. to transact such other business as may properly come before the annual meeting or any continuation, postponement or adjournment thereof.

The foregoing items of business are more fully described in the proxy statement accompanying this notice. We are not aware of any other business to come before the meeting.

The board of directors has fixed the close of business on April 22, 2010 as the record date for the determination of stockholders entitled to notice of, and to vote at, this annual meeting and at any continuation, postponement or adjournment thereof. A list of stockholders will be available for inspection at least ten days prior to the annual meeting at our principal executive offices at 2601 Fourth Avenue, Suite 500, Seattle, Washington 98121.

Important Notice Regarding the Availability of Proxy Materials for the Stockholder Meeting to be Held on June 3, 2010: the Proxy Statement for the Annual Meeting and the Annual Report to Stockholders for the year ended December 31, 2009 are available at <http://ir.oncothyreon.com/annual-proxy.cfm>.

By Order of the Board of Directors,

A handwritten signature in black ink, appearing to read "Shashi Karan".

Shashi Karan
Corporate Controller and Corporate Secretary

Seattle, Washington
May 13, 2010

ALL STOCKHOLDERS ARE CORDIALLY INVITED TO ATTEND THE ANNUAL MEETING IN PERSON. IF YOU PLAN TO ATTEND, PLEASE NOTIFY US BY CONTACTING INVESTOR RELATIONS AT (206) 769-9219 OR IR@ONCOTHYREON.COM.

WHETHER OR NOT YOU EXPECT TO ATTEND THE ANNUAL MEETING, PLEASE COMPLETE, DATE, SIGN AND RETURN THE ENCLOSED PROXY CARD AS PROMPTLY AS POSSIBLE IN ORDER TO ENSURE YOUR REPRESENTATION AT THE ANNUAL MEETING. A RETURN ENVELOPE (WHICH IS POSTAGE PREPAID IF MAILED IN THE UNITED STATES) IS ENCLOSED FOR THAT PURPOSE. YOU ALSO MAY VOTE YOUR SHARES ON THE INTERNET OR BY TELEPHONE BY FOLLOWING THE INSTRUCTIONS ON YOUR PROXY CARD.

EVEN IF YOU HAVE PROVIDED US WITH YOUR PROXY, YOU MAY STILL VOTE IN PERSON IF YOU ATTEND THE ANNUAL MEETING. PLEASE NOTE, HOWEVER, THAT IF YOUR SHARES ARE HELD OF RECORD BY A BROKER, BANK OR OTHER NOMINEE AND YOU WISH TO VOTE AT THE ANNUAL MEETING, YOU MUST OBTAIN FROM THE RECORD HOLDER A PROXY ISSUED IN YOUR NAME.

**YOUR VOTE IS IMPORTANT!
WHETHER YOU OWN ONE SHARE OR MANY, YOUR PROMPT COOPERATION IN VOTING YOUR
PROXY IS GREATLY APPRECIATED**

TABLE OF CONTENTS

	<u>Page</u>
INFORMATION CONCERNING VOTING AND SOLICITATION	1
General	1
Who Can Vote	1
Shares Outstanding and Quorum	1
Proxy Card and Revocation of Proxy	1
Voting of Shares	2
Required Vote	2
Counting of Votes	2
Effect of Not Casting Your Vote	3
Solicitation of Proxies	3
Stockholder Proposals for the 2011 Annual Meeting	3
Attending the Annual Meeting	4
Householding of Proxy Materials	4
PROPOSAL ONE — ELECTION OF CLASS III DIRECTORS	5
General	5
Nominees for Class III Directors Election at the 2010 Annual Meeting of Stockholders	5
Information Concerning the Nominees for Election as Class III Directors	6
Directors Continuing in Office Until the 2011 Annual Meeting of Stockholders	7
Directors Continuing in Office Until the 2012 Annual Meeting of Stockholders	7
Vote Required and Board of Directors Recommendation	8
PROPOSAL TWO — TO APPROVE THE ADOPTION OF THE COMPANY'S 2010 EMPLOYEE STOCK PURCHASE PLAN	9
Summary of the 2010 Employee Stock Purchase Plan	9
Participation in Plan Benefits	12
Certain U.S. Federal Income Tax Information	12
Vote Required and Board of Directors Recommendation	12
PROPOSAL THREE — TO RATIFY THE SELECTION OF DELOITTE & TOUCHE LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR THE YEAR ENDED DECEMBER 31, 2010	13
Fees Billed to Us by Deloitte & Touche LLP during Fiscal 2009	13
Policy on Audit Committee Pre-Approval of Fees	13
Vote Required and Board of Directors Recommendation	14
SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS	15
AUDIT COMMITTEE REPORT FOR THE YEAR ENDED DECEMBER 31, 2009	16
CORPORATE GOVERNANCE AND BOARD MATTERS	17
Board's Role in Risk Oversight	17
Board Leadership Structure	17
Board of Directors and Committee Meetings	17
Determinations Regarding Director Independence	18
Code of Conduct	18
Corporate Governance Guidelines	18
Committees of the Board of Directors	18
Communications with the Board of Directors	20

Table of Contents

	<u>Page</u>
Compensation of Directors	20
Fiscal Year 2009 Director Compensation	20
EXECUTIVE COMPENSATION	21
Compensation Discussion and Analysis	21
Accounting and Tax Considerations	29
Compensation Committee Interlocks and Insider Participation	29
Compensation Committee Report	29
Summary Compensation Table — 2009, 2008 and 2007	30
Grants of Plan-Based Awards	31
Outstanding Equity Awards at 2009 Fiscal Year-End	32
Option Exercises and Stock Vested	32
Employment Agreements and Offer Letters	33
Potential Payments Upon Termination or Change in Control	36
Share Option Plan	38
Restricted Share Unit Plan	40
Risk Analysis of Compensation Plans	41
CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS	42
Approval of Related Party Transactions	42
Indebtedness of Directors and Officers	42
SECTION 16(a) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE	43
ANNUAL REPORT	43
OTHER MATTERS	43
APPENDIX A: 2010 Employee Stock Purchase Plan	A-1



2601 Fourth Avenue
Suite 500
Seattle, Washington 98121
www.oncothyreon.com

THE ONCOTHYREON 2010 ANNUAL MEETING OF STOCKHOLDERS PROXY STATEMENT

INFORMATION CONCERNING VOTING AND SOLICITATION

General

The enclosed proxy is solicited on behalf of the board of directors of Oncothyreon Inc., a Delaware corporation (the "Company"), for use at the 2010 annual meeting of stockholders to be held on Thursday, June 3, 2010, at 9:00 A.M. local time, or at any continuation, postponement or adjournment thereof, for the purposes discussed in this proxy statement and in the accompanying Notice of Annual Meeting and any business properly brought before the annual meeting. Proxies are solicited to give all stockholders of record an opportunity to vote on matters properly presented at the annual meeting. We mailed this proxy statement and the enclosed proxy card to all stockholders entitled to vote at the annual meeting for the first time on or about May 13, 2010. In the mailing, we included copies of our Annual Report to stockholders for the year ended December 31, 2009. The annual meeting will be held at the Hotel Andra, 2000 Fourth Avenue, Seattle, Washington 98121.

Who Can Vote

You are entitled to vote if you were a stockholder of record of our common stock, \$0.0001 par value as of the close of business on April 22, 2010. Your shares may be voted at the annual meeting only if you are present in person or represented by a valid proxy.

Shares Outstanding and Quorum

At the close of business on April 22, 2010, 25,753,405 shares of our common stock were outstanding and entitled to vote. Each share of common stock is entitled to one vote on each matter presented. There is no cumulative voting. One-third of the outstanding shares of our common stock entitled to vote, present in person or represented by proxy, will constitute a quorum at the annual meeting.

Proxy Card and Revocation of Proxy

You may vote by completing and mailing the enclosed proxy card. If you sign the proxy card but do not specify how you want your shares to be voted, your shares will be voted by the proxy holders named in the enclosed proxy (i) in favor of the election of both of the director nominees, (ii) in favor of the adoption of the 2010 Employee Stock Purchase Plan and (iii) in favor of ratification of the selection of Deloitte & Touche LLP as our independent registered public accountants for the year ending December 31, 2010. In their discretion, the proxy holders named in the enclosed proxy are authorized to vote on any other matters that may properly come before the annual meeting and at any continuation, postponement or adjournment thereof. The board of directors knows of no other items of business that will be presented for consideration at the annual meeting other than those described in this proxy statement. In addition, no other stockholder proposal or nomination was received on a timely basis, so no such matters may be brought to a vote at the annual meeting.

If you vote by proxy, you may revoke that proxy at any time before it is voted at the annual meeting. Stockholders of record may revoke a proxy by sending to our corporate secretary at our principal executive

office at 2601 Fourth Avenue, Suite 500, Seattle, WA 98121, a written notice of revocation or a duly executed proxy bearing a later date or by attending the annual meeting in person and voting in person. Attendance at the annual meeting will not, by itself, revoke a proxy. If your shares are held in the name of a broker, bank or other nominee, you may change your vote by submitting new voting instructions to your bank, broker or other nominee. Please note that if your shares are held of record by a broker, bank or other nominee, and you decide to attend and vote at the annual meeting, your vote in person at the annual meeting will not be effective unless you present a legal proxy, issued in your name from the record holder, your broker, bank or other nominee.

Voting of Shares

Stockholders of record as of the close of business on April 22, 2010 are entitled to one vote for each share of our common stock held on all matters to be voted upon at the annual meeting. You may vote by attending the annual meeting and voting in person. You also may vote on the Internet, by telephone or by completing and mailing the enclosed proxy card or the form forwarded by your bank, broker or other holder of record. Voting on the Internet or by telephone may not be available to all stockholders. The Internet and telephone voting facilities will close at 1:00 A.M. Pacific Time on June 3, 2010. Stockholders who vote through the Internet should be aware that they may incur costs to access the Internet, such as usage charges from telephone companies or Internet service providers and that these costs must be borne by the stockholder. Stockholders who vote by Internet or telephone need not return a proxy card or the form forwarded by your bank, broker or other holder of record by mail. If your shares are held by a bank, broker or other nominee, please refer to the instructions they provide for voting your shares. All shares entitled to vote and represented by properly executed proxies received before the polls are closed at the annual meeting, and not revoked or superseded, will be voted at the annual meeting in accordance with the instructions indicated on those proxies. **YOUR VOTE IS IMPORTANT.**

Required Vote

Proposal No. One: The affirmative vote of a plurality, or the largest number, of the shares of common stock present in person or by proxy at the meeting and entitled to vote is required for the election of each director. This means that the two director nominees who receive the highest number of affirmative “FOR” votes will be elected to the board.

Proposal Nos. Two and Three: The affirmative vote of the holders of shares of common stock, having a majority of the votes present in person or represented by proxy at the annual meeting and entitled to vote on the matter, are necessary to approve the 2010 Employee Stock Purchase Plan and to ratify the appointment of Deloitte & Touche LLP.

Counting of Votes

Proposal No. One: You may either vote “FOR” or “WITHHOLD” authority to vote for each nominee for the board. In the election of directors, the two director nominees receiving the highest number of affirmative “FOR” votes will be elected to the board.

Proposal Nos. Two and Three: You may vote “FOR,” “AGAINST” or “ABSTAIN” on the proposal to approve the 2010 Employee Stock Purchase Plan and the proposal to ratify our independent registered accounting firm. Abstentions will not be counted as voting on a proposal and has the same effect as a vote against that proposal.

If you do not provide voting instructions to your broker or other nominee on non-routine items (our Proposals One and Two), such shares cannot be voted and will be considered “broker non-votes,” rather than votes “for” or “against.”

A representative of Computershare Limited, our transfer agent, will tabulate votes and act as independent inspector of election. All votes will be tabulated by the inspector of election, who will separately tabulate affirmative and negative votes, abstentions and broker “non-votes.” Shares held by persons attending the annual meeting but not voting, shares represented by proxies that reflect abstentions as to a particular proposal

and broker “non-votes” will be counted as present for purposes of determining a quorum. A broker non-vote occurs when a nominee holding shares for a beneficial owner has not received voting instructions from the beneficial owner and does not have discretionary authority to vote the shares.

Because no definitive statutory or case law authority exists in Delaware as to the proper treatment of abstentions, if you return a proxy card that indicates an abstention from voting in all matters, the shares represented will be counted for the purpose of determining both the presence of a quorum and the total number of votes cast with respect to a proposal (other than the election of directors), but they will not be voted on any matter at the annual meeting. In the absence of controlling precedent to the contrary, we intend to treat abstentions in this matter. Accordingly, abstentions will have the same effect as a vote “*AGAINST*” a proposal.

Effect of Not Casting Your Vote

If you hold your shares in street name it is critical that you cast your vote if you want it to count in the election of directors. In the past, if you held your shares in street name and you did not indicate how you wanted your shares voted in the election of directors, your bank or broker was allowed to vote those shares on your behalf in the election of directors as they felt appropriate.

Recent changes in regulation were made to take away the ability of your bank or broker to vote your uninstructed shares in the election of directors on a discretionary basis. Thus, if you hold your shares in street name and you do not instruct your bank or broker how to vote in the election of directors, no votes will be cast on your behalf. Similarly, your bank or broker will not be able to vote your uninstructed shares with respect to the adoption of the 2010 Employee Stock Purchase Plan. Your bank or broker will, however, continue to have discretion to vote any uninstructed shares on the ratification of the appointment of our independent registered public accounting firm. If you are a stockholder of record and you do not cast your vote, no votes will be cast on your behalf on any of the items of business at the annual meeting.

Solicitation of Proxies

We will bear the entire cost of solicitation of proxies, including preparation, assembly and mailing of this proxy statement, the proxy and any additional information furnished to stockholders. Copies of solicitation materials will be furnished to banks, brokerage houses, fiduciaries and custodians holding shares of our common stock in their names that are beneficially owned by others to forward to those beneficial owners. We may reimburse persons representing beneficial owners for their costs of forwarding the solicitation materials to the beneficial owners. Original solicitation of proxies by mail may be supplemented by telephone, facsimile, electronic mail or personal solicitation by our directors, officers or employees. No additional compensation will be paid to our directors, officers or employees for such services. We also intend to retain Georgeson to assist us in the solicitation of proxies. We anticipate that the costs associated with retaining Georgeson will not exceed \$15,000. A list of stockholders entitled to vote at the annual meeting will be available for examination by any stockholder for any purpose germane to the annual meeting during ordinary business hours at our offices at 2601 Fourth Avenue, Suite 500, Seattle, Washington 98121 for the ten days prior to the annual meeting, and also at the annual meeting.

Stockholder Proposals for the 2011 Annual Meeting

Stockholder proposals submitted for inclusion in our proxy materials for our 2011 annual meeting of stockholders pursuant to Rule 14a-8 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), must be received at our principal executive offices no later than the close of business on January 13, 2011. Stockholders who do not wish to use the mechanism provided by the rules of the Securities and Exchange Commission (the “SEC”) in proposing a matter for action at the next annual meeting must notify us in writing of the proposal and the information required by the provisions of our bylaws dealing with advance notice of stockholder proposals and director nominations. To be timely, a stockholder’s written notice must be delivered to or mailed and received at our principal executive offices no later than the close of business on January 13, 2011.

Attending the Annual Meeting

Our annual meeting will begin promptly at 9:00 a.m., local time, on Thursday, June 3, 2010, at the Hotel Andra, 2000 Fourth Avenue, Seattle, Washington 98121.

Directions to the Hotel Andra from the Seattle-Tacoma International Airport are as follows:

1. Head north on Interstate 5 to Exit 165 for Seneca St.;
2. Turn left on Seneca St.;
3. Turn right on Fourth Avenue (destination is on the right).

All stockholders should be prepared to present photo identification for admission to the annual meeting. Admission will be on a first-come, first-served basis. If you are a beneficial stockholder and hold your shares in “street name,” you will be asked to present proof of ownership of your shares as of the record date. Examples of acceptable evidence of ownership include your most recent brokerage statement showing ownership of shares prior to the record date or a photocopy of your voting instruction form. Persons acting as proxies must bring a valid proxy from a stockholder of record as of the record date. Your late arrival or failure to comply with these procedures could affect your ability to participate in the annual meeting.

Householding of Proxy Materials

We have adopted a procedure approved by the SEC called “householding.” Under this procedure, stockholders of record who have the same address and last name and do not participate in electronic delivery of proxy materials will receive only one set of our proxy materials unless one or more of these stockholders notifies us that they wish to continue receiving individual copies. We believe this will provide greater convenience for our stockholders, as well as cost savings for us, by reducing the number of duplicate documents that are sent to your home.

Stockholders who participate in householding will continue to receive separate proxy cards. Householding will not in any way affect your rights as a stockholder.

If you are eligible for householding and currently receive multiple copies of our proxy materials with other stockholders of record with whom you share an address or if you hold stock in more than one account, and in either case you wish to receive only a single copy of these documents for your household, please contact our corporate secretary at 2601 Fourth Avenue, Suite 500, Seattle, Washington 98121 at (206) 801-2100.

If you participate in householding and wish to receive a separate copy of our Annual Report on Form 10-K or this proxy statement, or if you do not wish to participate in householding and prefer to receive separate copies of these documents in the future, please contact our corporate secretary at the address or telephone number indicated above and we will promptly deliver to you separate copies of these documents.

Beneficial stockholders can request information about householding from their banks, brokers, or other holders of record.

PROPOSAL ONE
ELECTION OF CLASS III DIRECTORS

General

As of the date of this proxy statement, our board of directors is composed of six directors. Our bylaws permit our board of directors to establish by resolution the authorized number of directors, and seven directors are currently authorized. The authorized number of directors may be changed by resolution duly adopted by at least a majority of our entire board of directors, although no decrease in the authorized number of directors will have the effect of removing an incumbent director from the board of directors until such director's term expires.

Our board of directors is divided into three classes of directors, serving staggered three-year terms, as follows:

- Class III directors consist of Richard Jackson and Robert Kirkman, whose terms will expire at this annual meeting;
- Class I directors consist of Daniel Spiegelman and Douglas Williams, whose terms will expire at the 2011 annual meeting of stockholders; and
- Class II directors consist of Christopher Henney and W. Vickery Stoughton, whose terms will expire at the 2012 annual meeting of stockholders.

Directors for a class whose terms expire at a given annual meeting will be up for re-election for three-year terms at that meeting. Each director's term will continue until the election and qualification of his successor, or his earlier death, resignation or removal. Any increase or decrease in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors. This classification of our board of directors may have the effect of delaying or preventing changes in control of management. There are no family relationships among any of our directors or executive officers.

Information concerning our incumbent directors is set forth below. Unless otherwise indicated, each position with Oncothyreon described in each director's biography below refers to a position currently with Oncothyreon and, prior to December 10, 2007, with Biomira Inc., our predecessor corporation. On December 10, 2007, Oncothyreon became the successor corporation to Biomira by way of a plan of arrangement effected pursuant to Canadian Law.

Nominees for Class III Directors Election at the 2010 Annual Meeting of Stockholders

There are two nominees standing for election as Class III directors this year. Based on the report of the corporate governance and nominating committee, our board of directors has approved the nomination of Richard Jackson and Robert Kirkman for re-election as Class III directors at the 2010 annual meeting. If elected, each of Drs. Jackson and Kirkman will hold office as a Class III director until our 2013 annual meeting of stockholders.

If you sign your proxy or voting instruction card but do not give instructions with respect to the voting of directors, your shares will be voted for the nominees recommended by our board of directors. If you wish to give specific instructions with respect to the voting of directors, you may do so by indicating your instructions on your proxy or voting instruction card. The board of directors expects that the nominees will be available to serve as directors. If Drs. Jackson or Kirkman become unavailable, however, the proxy holders intend to vote for any nominee designated by the board of directors, unless the board of directors chooses to reduce the number of directors serving on the board of directors. In the event that additional persons are nominated for election as directors, the proxy holders intend to vote all proxies received by them in such a manner as to assure the election of Drs. Jackson and Kirkman.

Information Concerning the Nominees for Election as Class III Directors

The following table sets forth information concerning the nominees for election as Class III directors at the 2010 annual meeting, including information as to the nominee’s age and business experience as of the record date.

<u>Name of Nominee</u>	<u>Age</u>	<u>Principal Occupation During Past Five Years</u>	<u>Director Since</u>
RICHARD JACKSON, Ph.D.	70	RICHARD JACKSON, Ph.D., has been a member of our board of directors since May 2003. Dr. Jackson is the chairman of our compensation committee and a member of our corporate governance and nominating committee. Dr. Jackson is president of Jackson Associates, LLC, a biotechnology and pharmaceutical consulting company. Since September 2006, Dr. Jackson has also been president and chief executive officer of Ausio Pharmaceuticals, LLC, a drug development company. From May 2002 to May 2003, Dr. Jackson was president, chief executive officer and chairman of the board of directors of EmerGen, Inc., a biotechnology company. From November 1998 to January 2002, Dr. Jackson served as senior vice president, research and development for Atrix Laboratories, Inc., a biotechnology company. From January 1993 to July 1998, Dr. Jackson served as senior vice president, discovery research, at Wyeth-Ayerst Laboratories, the pharmaceuticals division of American Home Products Corporation. Our corporate governance and nominating committee believes that Dr. Jackson’s qualifications for membership on the board of directors include over 20 years of experience in academic medicine and over 25 years of experience at several pharmaceutical and biotechnology companies, with positions in both research and development and senior management. This experience allows Dr. Jackson to provide our board of directors with significant insights into the clinical development of our product candidates. Dr. Jackson served as a director of Inflazyme Pharmaceuticals Ltd. until 2007. Dr. Jackson received his Ph.D. in microbiology and his B.S. in chemistry from the University of Illinois.	2003
ROBERT KIRKMAN, M.D.	61	ROBERT KIRKMAN, M.D., has served as a member of our board of directors and as our president and chief executive officer since September 2006. From 2005 to 2006, Dr. Kirkman was acting president and chief executive officer of Xcyte Therapies, Inc., which concluded a merger with Cyclacel Pharmaceuticals, Inc., both development-stage biopharmaceuticals companies, in March of 2006. From 2004 to 2005, Dr. Kirkman was chief business officer and vice president of Xcyte. From 1998 to 2003, Dr. Kirkman was vice president, business development and corporate communications of Protein Design Labs, Inc., a biopharmaceuticals company. Our corporate governance and nominating committee believes that Dr. Kirkman’s qualifications to for membership on the board of directors include his previous experience at development-stage biotechnology companies and his position as our president and chief executive officer. Dr. Kirkman’s scientific understanding along with his corporate vision and operational knowledge provide strategic guidance to our management team and our board of directors. Dr. Kirkman holds an M.D. degree from Harvard Medical School and a B.A. in economics from Yale University.	2006

Directors Continuing in Office Until the 2011 Annual Meeting of Stockholders

DANIEL SPIEGELMAN, M.B.A., age 51, has been a member of our board of directors since June 2008. Mr. Spiegelman is the chairman of our audit committee and a member of our corporate governance and nominating committee. From 1998 to 2009, Mr. Spiegelman was employed at CV Therapeutics, Inc., a biopharmaceutical company acquired in 2009 by Gilead, most recently as senior vice president and chief financial officer. From 1992 to 1998, Mr. Spiegelman was an employee at Genentech, Inc., a biotechnology company, and most recently as treasurer. Mr. Spiegelman also serves as a member of the board of directors of Affymax, Inc., a biopharmaceuticals company, Cyclacel Pharmaceuticals, Inc., a development-stage biopharmaceuticals company and Omeros Corporation, a clinical-stage biopharmaceutical company. Our corporate governance and nominating committee believes that Mr. Spiegelman's qualifications for membership on the board of directors include his extensive background in the financial and commercial issues facing growing biotechnology companies. Additionally, as chief financial officer of CV Therapeutics prior to its sale to Gilead Sciences, Mr. Spiegelman was involved in transitioning the company from a research and development focus to a commercial entity with two approved products. This experience allows Mr. Spiegelman to provide our board of directors with significant insights into financial strategy and organizational development. Mr. Spiegelman received his B.A. and M.B.A. from Stanford University.

DOUGLAS WILLIAMS, Ph.D., age 52, has been a member of our board of directors since October 2009. Dr. Williams serves as a member of our audit committee. Dr. Williams joined ZymoGenetics in 2004 and has served as a director and chief executive officer since January 2009. He has held senior level positions at a number of prominent biotechnology companies, including Seattle Genetics, Inc., Immunex Corporation, and Amgen, Inc. As executive vice president and chief technology officer at Immunex, Dr. Williams played a significant role in the discovery and early development of Enbrel, the first biologic approved for the treatment of rheumatoid arthritis. Our corporate governance and nominating committee believes that Dr. Williams' qualifications for membership on the board of directors include over 20 years of experience in the biotechnology industry. During his career, Dr. Williams has been involved in the approval of three new protein therapeutics and in several label expansions. Further, as chief executive officer of ZymoGenetics, Dr. Williams provides our board of directors with significant insights into the strategic and operational issues facing our company. Dr. Williams currently serves as a director of Array BioPharma Inc., a biopharmaceutical company, and Aerovance, Inc., a privately-held biopharmaceutical company, and was a director of Anadys Pharmaceuticals, Inc., a biopharmaceutical company, and Seattle Genetics, a clinical stage biotechnology company, until 2009 and 2005, respectively. Dr. Williams received a B.S. (magna cum laude) in Biological Sciences from the University of Massachusetts, Lowell and a Ph.D. in Physiology from the State University of New York at Buffalo, Roswell Park Cancer Institute Division.

Directors Continuing in Office Until the 2012 Annual Meeting of Stockholders

CHRISTOPHER HENNEY, Ph.D., age 69, has served as the chairman of our board of directors since September 2006 and as a member of our board of directors since March 2005. Dr. Henney is a member of our compensation and corporate governance and nominating committees. From 1995 to 2003, Dr. Henney was chairman and chief executive officer of Dendreon Corporation, a publicly-traded biotechnology company that he co-founded. Dr. Henney was also a co-founder of Immunex Corporation and ICOS Corporation, both publicly-traded biotechnology companies. Our corporate governance and nominating committee believes that Dr. Henney's qualifications for membership on the board of directors include his roles as co-founder of Dendreon, Immunex and ICOS, as well as his membership on the boards of directors of several development-stage biotechnology companies. Through his experience in working with biotechnology companies from founding until commercialization of their product candidates, Dr. Henney provides our board of directors with significant insights into the strategic, operational and clinical development aspects of the company. Dr. Henney currently serves as vice-chairman of the board of directors of Cyclacel Pharmaceuticals, Inc., a development-stage biopharmaceuticals company, a member of the board of directors of AVI BioPharma, Inc., a biopharmaceuticals company, and chairman of the board of directors of Anthera Pharmaceuticals, Inc., a biopharmaceutical company. Dr. Henney was the chairman of SGX Pharmaceuticals, Inc., a biotechnology company acquired by Eli Lilly in 2008. Dr. Henney received a Ph.D. in experimental pathology from the

University of Birmingham, England, where he also obtained his D.Sc. for contributions in the field of immunology. Dr. Henney is a former professor of immunology and microbiology and has held faculty positions at Johns Hopkins University, the University of Washington and the Fred Hutchinson Cancer Research Center.

W. VICKERY STOUGHTON, age 64, has been a member of our board of directors since June 1997.

Mr. Stoughton is a member of our audit and compensation committees. From August 2006 until September 2007, Mr. Stoughton served as president and chief executive officer of MagneVu Corporation, a medical devices company, which filed for bankruptcy in September 2007. From 1996 to 2002, Mr. Stoughton was chairman and chief executive officer of Careside Inc., a research and development medical devices company, which filed for bankruptcy in October 2002. From October 1995 to July 1996, Mr. Stoughton was president of SmithKline Beecham Diagnostics Systems Co., a diagnostic services and product company, and prior to October 1995 he served as president of SmithKline Beecham Clinical Laboratories, Inc., a clinical laboratory company. From 1988 until May 2008, Mr. Stoughton was a member of the board of directors of Sun Life Financial Inc., a financial services company. Our corporate governance and nominating committee believes that Mr. Stoughton's qualifications for membership on the board of directors include his involvement in several medical device companies, his role as president of SmithKline Beecham Clinical Laboratories, and his broader business background. Through this experience, Mr. Stoughton provides our board of directors with significant insights into the operational aspects of the company. Mr. Stoughton received his B.S. in chemistry from St. Louis University and his M.B.A. from the University of Chicago.

Vote Required and Board of Directors Recommendation

The nominees receiving the greatest number of votes of the shares present and entitled to vote at the annual meeting will be elected as directors.

The board of directors recommends that stockholders vote "FOR" the election of each of Drs. Jackson and Kirkman to the board of directors.

PROPOSAL TWO

TO APPROVE THE ADOPTION OF THE COMPANY'S 2010 EMPLOYEE STOCK PURCHASE PLAN

The stockholders are being asked to approve a new 2010 Employee Stock Purchase Plan (the "ESPP"). Upon the recommendation of the compensation committee of the board of directors, the board of directors has adopted the ESPP, subject to stockholder approval at the 2010 annual meeting of stockholders. The board of directors has determined that it is in the best interests of our company and its stockholders to have an employee stock purchase plan and is asking our stockholders to approve the ESPP.

Summary of the 2010 Employee Stock Purchase Plan

The following is a summary of the principal features of the ESPP and its operation. The summary is qualified in its entirety by reference to the ESPP attached hereto as Appendix A.

General

The ESPP was adopted by the board of directors, upon the recommendation of the compensation committee, on March 25, 2010, subject to approval by our stockholders at the 2010 annual meeting of stockholders. The purpose of the ESPP is to provide a means by which employees of our company and its designated subsidiaries may be given an opportunity to purchase our common stock. The compensation committee and our board of directors believe the ESPP is in the best interests of the company and our stockholders because it will enhance the competitiveness of our employee compensation and allow us to continue to attract and retain the best personnel. Further, the ESPP will provide employees with an opportunity to obtain an ownership stake in our company, thereby aligning the interests of our employees and stockholders.

Shares Available for Issuance

If our stockholders approve this proposal, a total of 900,000 shares of our common stock will be reserved for issuance under the ESPP. We expect that the number of shares reserved for issuance under the ESPP will last for approximately 5 years.

Administration

The ESPP will be administered by the compensation committee of the board of directors (in such capacity, the "Administrator"). The Administrator has full and exclusive discretionary authority to construe, interpret and apply the terms of the ESPP, to designate separate offerings under the ESPP, to determine eligibility, to adjudicate all disputed claims filed under the ESPP and to establish such procedures it deems necessary for the administration of the ESPP. Subject to the provisions of the ESPP, every finding, decision, and determination made by the Administrator will, to the full extent permitted by law, be final and binding upon all parties.

Eligibility

Unless the Administrator provides otherwise (consistent with the terms of the ESPP and/or Section 423 of the Internal Revenue Code of 1986, as amended (the "Code")), employees of our company and its designated subsidiaries whose customary employment is at least 20 hours per week and more than five months in a calendar year are eligible to participate in the ESPP; except that no employee will be granted an option under the ESPP (i) to the extent that, immediately after the grant, such employee would own 5% or more of the total combined voting power of all classes of our capital stock or the capital stock of any parent company or subsidiary of our company, or (ii) to the extent that his or her rights to purchase stock under all of our employee stock purchase plans accrues at a rate which exceeds \$25,000 worth of stock (determined at the fair market value of the shares at the time such option is granted) for each calendar year in which such rights are outstanding at any time, as determined in accordance with Code Section 423 and the regulations thereunder.

Subject to the limits in the previous sentence, the maximum aggregate number of shares available that a participant may purchase under an offering period will be 15,000 shares.

Offerings

The ESPP is implemented by offerings of rights to eligible employees. Each offering will be in such form and will contain such terms and conditions as the Administrator will deem appropriate, which generally will comply with Code Section 423(b) and all employees granted rights under an offering will have the same rights and privileges. The provisions of separate offerings need not be identical. Initially, the ESPP has a series of consecutive and overlapping 18-month offering periods commencing generally on February 1 and August 1 of each year, with each offering period including three six-month purchase periods; however, the Administrator can modify the duration of the purchase period and/or offering period. The first day of an offering is referred to as the “enrollment date.”

An eligible employee may become a participant in the ESPP by delivering a subscription agreement to our stock administration office (or its designee), on or before a date determined by the Administrator prior to the enrollment date or by following an electronic or other enrollment procedure determined by the Administrator. A subscription agreement will authorize participant contributions, generally in the form of payroll deductions unless otherwise determined by the Administrator, which may not exceed 15% of a participant’s compensation (as defined in the ESPP) during the offering, unless the Administrator determines such lower percentage. Generally during an offering, a participant may increase or decrease the rate of his or her participation level, except that a participant may only make one change to his or her participation level during each month of an offering period.

On the enrollment date of an offering, each participant is granted a right to purchase shares. An offering includes three purchase periods of approximately six-months duration. The right expires at the end of the offering, or potentially earlier in connection with an employee’s termination (described below), but is exercised on generally the last day on which our common stock is actively traded during the purchase period (the “exercise date”). If the fair market value of our common stock on any purchase date is lower than the fair market value of our common stock on the enrollment date, then all participants in the offering period automatically will be withdrawn from such offering period immediately after exercise of their option on such purchase date and automatically re-enrolled in the immediately following offering period on the first day thereof.

Purchase Price

Unless and until the Administrator determines otherwise, the purchase price for shares is 85% of the fair market value of a share of our common stock on the enrollment date or on the exercise date, whichever date has a lower price.

Payment of Purchase Price; Contributions

On each exercise date, each participant’s accumulated payroll deductions (or other contributions) will be applied to the purchase of whole shares of our common stock, up to the maximum number of shares permitted under the ESPP and a given offering period. Currently, a participant may make contributions under the ESPP only by payroll deductions, unless the Administrator, in its sole discretion, permits participants to contribute amounts through cash, check or other specified means set forth in the subscription agreement prior to each exercise date.

Withdrawal

Generally, a participant may withdraw from an offering by delivering a withdrawal notice to our stock administration office (or its designee) in such form as we provide or following an electronic or other procedure determined by the Administrator. The participant will receive his or her accumulated contributions from the offering promptly after the effective date of his or her withdrawal. Once a participant withdraws from a

particular offering, the participant must re-enroll in the ESPP in order to participate in future offerings under the ESPP.

Termination of Employment

Rights granted under the ESPP terminate immediately upon cessation of a participant's employment with us and any of our designated subsidiaries for any reason. Once a participant's employment is terminated, we will distribute to such terminated employee all of his or her accumulated contributions under the offering generally without interest.

Adjustments upon Changes in Capitalization, Dissolution or Liquidation, or Change in Control

Changes in Capitalization. If any dividend or other distribution (whether in the form of cash, common stock, other securities, or other property), recapitalization, stock split, reverse stock split, reorganization, merger, consolidation, split-up, spin-off, combination, repurchase, or exchange of common stock or other securities of our company, or other change in our corporate structure affecting our common stock such that an adjustment is appropriate in order to prevent dilution or enlargement of the benefits or potential benefits intended to be made available under the ESPP, then the Administrator will adjust the number and class of common stock that may be delivered under the ESPP, the purchase price per share and the number of shares of common stock covered by each option under the ESPP that has not yet been exercised, the maximum number of shares a participant can purchase during an offering period and the limitations related to the automatic annual share increase.

Dissolution or Liquidation. In the event of our proposed dissolution or liquidation, the offering period then in progress will be shortened by setting a new exercise date and will terminate immediately prior to the completion of the dissolution or liquidation, unless provided otherwise by the Administrator. The new exercise date will be prior to the dissolution or liquidation. If the Administrator shortens any offering periods then in progress, the Administrator will notify each participant in writing or electronically prior to the new exercise date, that the exercise date has been changed to the new exercise date and that the right will be exercised automatically on the new exercise date, unless the participant has already withdrawn from the offering.

Merger or Change of Control. In the event of a merger or Change in Control (as defined in the ESPP), then the surviving corporation or its parent or subsidiary may assume outstanding rights under the ESPP or substitute similar rights. If no surviving corporation assumes outstanding rights or substitutes similar rights, the Administrator will shorten the offering with respect to which such right relates by setting a new exercise date on which such offering will end. The new exercise date will be prior to the transaction. If the Administrator shortens any offering periods then in progress, the Administrator will notify each participant in writing or electronically prior to the date of the merger or Change in Control, that the exercise date has been changed to the new exercise date and that the right will be exercised automatically on the new exercise date, unless the participant has already withdrawn from the offering.

Amendment and Termination of the ESPP. The Administrator may, at any time and for any reason, amend, suspend or terminate the ESPP or any part of the ESPP. If the ESPP is terminated, the Administrator may elect to terminate all outstanding offering periods either immediately or upon completion of the purchase of shares on the next exercise date (which may be sooner than originally scheduled, if determined by the Administrator), or may elect to permit offering periods to expire in accordance with their terms (and subject to any adjustments described above). If an offering period is terminated prior to expiration, all amounts credited to a participant's account that were not used to purchase shares will be returned to the participant (without interest) as soon as administratively practicable. Without stockholder consent and without limiting the foregoing, the Administrator is entitled to change the offering periods, designate separate offerings, limit the frequency and/or number of changes in the amount withheld during an offering period, establish the exchange ratio applicable to amounts withheld in a currency other than U.S. dollars, permit payroll withholding in excess of the amount designated by a participant in order to adjust for delays or mistakes in our processing of properly completed withholding elections, establish reasonable waiting and adjustment periods and/or accounting and crediting procedures to ensure that amounts applied toward the purchase of shares for each participant

correspond with contribution amounts, and establish such other limitations or procedures as the Administrator determines in its sole discretion advisable which are consistent with the ESPP. If the Administrator determines that the ongoing operation of the ESPP may result in unfavorable financial accounting consequences, the Administrator may modify, amend or terminate the ESPP to reduce or eliminate such accounting consequence.

Participation in Plan Benefits

Participation in the ESPP is voluntary and is dependent on each eligible employee's election to participate and his or her determination as to the level of payroll deductions or other contributions. Accordingly, future purchases under the ESPP are not determinable. Non-employee directors are not eligible to participate in the ESPP. As of the date of this proxy statement, 2010, no purchases have been made under the ESPP since its adoption by our board of directors.

Certain U.S. Federal Income Tax Information

The following brief summary of the effect of U.S. federal income taxation upon the participant and our company with respect to the shares purchased under the ESPP does not purport to be complete, and does not discuss the tax consequences of a participant's death or the income tax laws of any state or non-U.S. jurisdiction in which the participant may reside.

The ESPP, and the right of participants to make purchases thereunder, is intended to qualify under the provisions of Sections 421 and 423 of the Code. Under these provisions, no income will be taxable to a participant until the shares purchased under the ESPP are sold or otherwise disposed of. Upon sale or other disposition of the shares, the participant generally will be subject to tax in an amount that depends upon the holding period. If the shares are sold or otherwise disposed of more than two years from the first day of the applicable offering and one year from the applicable date of purchase, the participant will recognize ordinary income measured as the lesser of (i) the excess of the fair market value of the shares at the time of such sale or disposition over the purchase price and (ii) the excess of the fair market value of a share on the enrollment date that the right was granted over the purchase price for the right. Any additional gain will be treated as long-term capital gain. If the shares are sold or otherwise disposed of before the expiration of these holding periods, the participant will recognize ordinary income generally measured as the excess of the fair market value of the shares on the date the shares are purchased over the purchase price. Any additional gain or loss on such sale or disposition will be long-term or short-term capital gain or loss, depending on how long the shares have been held from the date of purchase. We generally are not entitled to a deduction for amounts taxed as ordinary income or capital gain to a participant except to the extent of ordinary income recognized by participants upon a sale or disposition of shares prior to the expiration of the holding periods described above.

Vote Required and Board of Directors Recommendation

The approval of the ESPP requires the affirmative vote of the holders of a majority of the shares of our common stock present or represented and entitled to vote will be required to approve this proposal.

Our board of directors has unanimously approved this proposal and recommends that stockholders vote "FOR" the approval of the Oncothyreon Inc. 2010 Employee Stock Purchase Plan.

**PROPOSAL THREE
TO RATIFY THE SELECTION OF DELOITTE & TOUCHE LLP
AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR THE YEAR ENDED
DECEMBER 31, 2010**

Our audit committee has selected the firm of Deloitte & Touche LLP to conduct an audit in accordance with generally accepted auditing standards of our financial statements for the year ending December 31, 2010. A representative of that firm is expected to be present at the annual meeting to respond to appropriate questions and will be given an opportunity to make a statement if he or she so desires. The audit committee has discussed with Deloitte & Touche LLP its independence from us and our management, and this discussion included consideration of the matters in the written disclosures required by the Independence Standards Board and the potential impact that non-audit services provided to us by Deloitte & Touche LLP could have on its independence. This appointment is being submitted for ratification at the meeting. If not ratified, the audit committee will reconsider this appointment, although the audit committee will not be required to appoint different independent auditors. Deloitte & Touche LLP has served as our independent auditors since April 1986.

Fees Billed to Us by Deloitte & Touche LLP during Fiscal 2009

Audit Fees

Fees and related expenses for the 2009 and 2008 audits by Deloitte & Touche LLP of our annual financial statements, its review of the financial statements included in our quarterly reports and other services that are provided in connection with statutory and regulatory filings totaled \$412,407 and \$422,601, respectively.

Audit-Related Fees

For the years 2009 and 2008, Deloitte & Touche LLP billed us \$66,272 and \$95,786, respectively, for its services related to financings, acquisitions, consultations on accounting issues, and other audit-related matters.

Tax Fees

For the years 2009 and 2008, Deloitte & Touche LLP billed us \$230,381 and \$255,868, respectively, for professional services related to preparation of our tax returns and tax consulting.

All Other Fees

For the years 2009 and 2008, Deloitte & Touche LLP billed us \$126,572 and \$0, respectively, for other services. Fees incurred for other services related primarily to our efforts to monetize the tax losses in our Canadian subsidiary, Oncothyreon Canada Inc.

Policy on Audit Committee Pre-Approval of Fees

In its pre-approval policy, the audit committee has authorized our chief executive officer or our chief financial officer to engage the services of Deloitte & Touche LLP with respect to the following services:

- audit related services that are outside the scope of our annual audit and generally are (i) required on a project, recurring, or on a one-time basis, (ii) requested by one of our business partners (e.g., a review or audit of royalty payments), or (iii) needed by us to assess the impact of a proposed accounting standard;
- audits of the annual statutory financial statements required by the non-U.S. governmental agencies for our overseas subsidiaries;

- accounting services related to potential or actual acquisitions or investment transactions that if consummated would be reflected in our financial results or tax returns (this does not include any due diligence engagements, which must be pre-approved by the audit committee separately); and
- other accounting and tax services, such as routine consultations on accounting and/or tax treatments for contemplated transactions.

Notwithstanding this delegation of pre-approval authority, the audit committee is informed of all audit and non-related services performed by Deloitte & Touche LLP. On an annual basis prior to the completion of the audit, the audit committee will review a listing prepared by management of all proposed non-audit services to be performed by the external auditor for the upcoming fiscal year, such listing to include scope of activity and estimated budget amount. On an annual basis, prior to completion of the external audit, the audit committee will review a listing prepared by the external auditors of all non-audit services performed during the immediately preceding fiscal year. The audit committee, if satisfied with the appropriateness of the services, will provide ratification to all services prior to completion of the audit. If non-audit services are required subsequent to the annual pre-approval of services, management will seek approval of such services at the next regularly scheduled audit committee meeting. If such services are required prior to the next audit committee meeting, management will confer with the audit committee chairman regarding either conditional approval subject to full audit committee ratification or the necessity to reconvene a meeting. The audit committee has considered the non-audit services provided to us by Deloitte & Touche LLP and has determined that the provision of such services is compatible with Deloitte & Touche LLP's independence.

All audit-related, tax and other fees were approved by the audit committee.

Vote Required and Board of Directors Recommendation

The affirmative vote of the holders of a majority of the shares of our common stock present or represented and entitled to vote will be required to approve this proposal.

The audit committee has approved the appointment of Deloitte & Touche LLP as our independent registered public accounting firm for the year ending December 31, 2010, and the board of directors recommends that stockholders vote "FOR" ratification of this appointment.

**SECURITY OWNERSHIP OF CERTAIN
BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS**

The following table sets forth certain information regarding beneficial ownership of our capital stock as of March 31, 2010 by (i) each person known by us to be the beneficial owner of more than 5% of any class of our voting securities, (ii) each of our directors, (iii) each of our “named executive officers” and (iv) our directors and executive officers as a group, including shares they had the right to acquire within 60 days after March 31, 2010.

<u>Name of Beneficial Owner(1)</u>	<u>Common Stock Beneficially Owned</u>	
	<u>Number of Shares(2)</u>	<u>Percent of Class(3)</u>
Directors and Executive Officers:		
Christopher Henney(4)	78,602	*
Richard Jackson(5)	14,362	*
W. Vickery Stoughton(6)	17,760	*
Daniel Spiegelman	—	*
Douglas Williams	—	*
Robert Kirkman(7)	597,736	2.27%
Gary Christianson(8)	19,583	*
Shashi Karan(9)	9,375	*
Diana Hausman	—	*
Scott Peterson	166	*
All directors and executive officers as a group (10 persons)(10)	737,584	2.79%

* Represents less than 1% of class or combined classes.

- (1) Except as otherwise indicated, the address of each stockholder identified is c/o Oncothyreon Inc., 2601 Fourth Avenue, Suite 500, Seattle, Washington 98121. Except as indicated in the other footnotes to this table, each person named in this table has sole voting and investment power with respect to all shares of stock beneficially owned by that person.
- (2) Options and warrants exercisable within 60 days after March 31, 2010 are deemed outstanding for the purposes of computing the percentage of shares owned by that person, but are not deemed outstanding for purposes of computing the percentage of shares owned by any other person.
- (3) Based on 25,753,405 shares of common stock issued and outstanding as of March 31, 2010.
- (4) Includes 53,602 shares of common stock that Dr. Henney has the right to acquire under outstanding options exercisable within 60 days after March 31, 2010.
- (5) Includes 9,362 shares of common stock that Dr. Jackson has the right to acquire under outstanding options exercisable within 60 days after March 31, 2010.
- (6) Includes 13,594 shares of common stock that Mr. Stoughton has the right to acquire under outstanding options exercisable within 60 days after March 31, 2010.
- (7) Includes 589,403 shares of common stock that Dr. Kirkman has the right to acquire under outstanding options exercisable within 60 days after March 31, 2010.
- (8) Includes 19,583 shares of common stock that Mr. Christianson has the right to acquire under outstanding options exercisable within 60 days after March 31, 2010.
- (9) Includes 4,375 shares of common stock that Mr. Karan has the right to acquire under outstanding options exercisable within 60 days after March 31, 2010.
- (10) Includes 689,916 shares of common stock that can be acquired under outstanding options exercisable within 60 days after March 31, 2010.

The following table sets forth the securities authorized for issuance under Oncothyreon’s equity compensation plans.

Equity Compensation Plan Information as of December 31, 2009

<u>Plan Category</u>	(A) Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	(B) Weighted Average Exercise Price of Outstanding Options, Warrants and Rights	(C) Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column (A))(1)
Equity compensation plans approved by security holders:			
Share option plan (\$Cdn.)(2)	947,032	\$ 8.59	—
Share option plan (\$U.S.)(2)	889,625	\$ 3.92	738,684
RSU plan	186,266	N.A.	260,771
Equity compensation plans not approved by security holders	—	N.A.	—
Total	2,022,923	N.A.	999,455

- (1) All of these are available for grants of restricted stock, restricted share units and other full-value awards, as well as for grants of stock options and stock appreciation rights.
- (2) Under the terms of the Amended and Restated Share Option Plan, the total number of shares issuable pursuant to options under the plan is 10% of the issued and outstanding shares. Shares issued upon the exercise of options do not reduce the percentage of shares which may be issuable pursuant to options under the Plan.

AUDIT COMMITTEE REPORT FOR THE YEAR ENDED DECEMBER 31, 2009

The audit committee oversees the financial reporting process of Oncothyreon (the “Company”) on behalf of the Company’s board of directors. Management has the primary responsibility for the financial statements and the reporting process, including the systems of internal controls. In fulfilling its oversight responsibilities, the audit committee reviewed the audited financial statements in the Annual Report with management, including a discussion of the accounting principles, the reasonableness of significant judgments, and the clarity of disclosures in the financial statements.

The audit committee reviewed with Deloitte & Touche LLP, the Company’s independent registered public accounting firm that is responsible for expressing an opinion on the conformity of those audited financial statements with generally accepted accounting principles and an opinion on the Company’s internal controls over financial reporting, its judgments about the Company’s accounting principles and the other matters required to be discussed with the audit committee under generally accepted auditing standards, including Statement on Auditing Standards No. 114, *The Auditor’s Communication with Those Charged with Governance*, as adopted by the Public Accounting Oversight Board in Rule 3200T. The audit committee has received from Deloitte & Touche LLP the written disclosure and the letter required by applicable requirements of the Public Company Accounting Oversight Board regarding the independent accountant’s communications with the audit committee concerning independence, and the audit committee has discussed with Deloitte & Touche LLP their independence. The audit committee has considered the effect of non-audit fees on the independence of Deloitte & Touche LLP and has concluded that such non-audit services are compatible with the independence of Deloitte & Touche LLP.

The audit committee discussed with Deloitte & Touche LLP the overall scope and plans for its audits. The audit committee meets with the independent registered public accounting firm, with and without management present, to discuss the results of its audits and quarterly reviews, its observations regarding the Company's internal controls, and the overall quality of the Company's financial reporting. The audit committee held a total of six meetings during 2009 and acted by unanimous written consent once.

In reliance on the reviews and discussions referred to above, the audit committee recommended to the board of directors, and the board of directors has approved, that the 2009 audited financial statements be included in the Annual Report on Form 10-K for the year ended December 31, 2009 for filing with the Securities and Exchange Commission.

This report has been furnished by the members of the audit committee.

AUDIT COMMITTEE

Daniel Spiegelman, Chairman
W. Vickery Stoughton
Douglas Williams

CORPORATE GOVERNANCE AND BOARD MATTERS

Board's Role in Risk Oversight

The board of directors is actively involved in oversight of risks that could affect our company. This oversight is conducted primarily through committees of the board of directors, as disclosed in the descriptions of each of the committees below and in the charters of each of the committees, but the full board of directors has retained responsibility for general oversight of risks. The board of directors satisfies this responsibility through full reports by each committee chairman 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.

Board Leadership Structure

The positions of chief executive officer and non-executive chairman of the board are held by two different individuals (Dr. Kirkman and Dr. Henney, respectively). Pursuant to our corporate governance principles, the board of directors has established the position of non-executive chairman in order to, in part; facilitate communication between management and our non-employee directors. Our board of directors has determined that the non-executive chairman will have many of the duties and responsibilities that a "lead independent director" might have and, therefore, has determined not to designate a separate "lead independent director." This current structure allows our chief executive officer to focus on our day-to-day business while our non-executive chairman leads the board in its fundamental role of providing advice to and independent oversight of management. The board of directors recognizes the time, effort and energy that the chief executive officer is required to devote to his position given our company's stage of development, as well as the commitment required to serve as our non-executive chairman. The board of directors will continue to assess the appropriateness of this structure as part of the board of directors' broader succession planning process.

Board of Directors and Committee Meetings

During 2009, our board of directors met eight times and acted by unanimous written consent twice. During 2009, our audit committee met six times and acted by unanimous written consent once, our compensation committee met three times and acted by unanimous written consent once, and our corporate governance and nominating committee met three times. All of our directors attended more than 75% of the aggregate of all meetings of the board of directors and of the committees on which such director served.

Although we do not have a formal policy regarding attendance by members of the board of directors at our annual meeting of stockholders, our directors are encouraged to attend and all of our directors attended the last annual meeting of stockholders, except for Dr. Williams who did not join our board of directors until October 2009.

Determinations Regarding Director Independence

The board of directors has determined that each of our current directors, except Dr. Kirkman, is an “independent director” as that term is defined in NASDAQ Marketplace Rule 5605(a)(2). The independent directors generally meet in executive session at each quarterly board of directors meeting.

The board of directors has also determined that each member of the audit committee, the compensation committee, and the corporate governance and nominating committee meets the independence standards applicable to those committees prescribed by the NASDAQ, the SEC, and the Internal Revenue Service.

Finally, the board of directors has determined that Mr. Spiegelman, the chairman of the audit committee, is an “audit committee financial expert” as that term is defined in Item 407(d)(5) of Regulation S-K promulgated by the SEC.

Code of Conduct

Our board of directors adopted a Code of Business Conduct and Ethics (the “Code of Conduct”) for all our officers, directors, and employees in December 2003, which was last amended on March 13, 2008, and a Code of Ethics for the President and Chief Executive Officer, the Chief Financial Officer and Corporate Controller on March 25, 2003, which was subsequently amended on March 13, 2008, (the “Code of Ethics”). The Code of Conduct details the responsibilities of all our officers, directors, and employees to conduct our affairs in an honest and ethical manner and to comply with all applicable laws, rules, and regulations. The Code of Conduct addresses issues such as general standards of conduct, avoiding conflicts of interest, communications, financial reporting, safeguarding our assets, responsibilities to our customers, suppliers, and competitors, and dealing with governments. The Code of Ethics imposes additional requirements on our senior executive, financial and accounting officers with respect to conflicts of interest, accuracy of accounting records and periodic reports and compliance with laws. Each of the Code of Conduct and Code of Ethics is available on our website at www.oncothyreon.com.

Corporate Governance Guidelines

We have also adopted Corporate Governance Guidelines that outline, among other things, the role of the board of directors, the qualifications and independence of directors, the responsibilities of management, the board of directors, and the committees of the board of directors, board of directors evaluation and compensation, management succession, chief executive officer evaluation, and limitations on the authority of executive management. The Corporate Governance Guidelines are also available on our website at www.oncothyreon.com.

Committees of the Board of Directors

During 2009, our board of directors had three standing committees: the audit committee, the compensation committee (which has delegated certain responsibilities to the new employee option committee as set forth in the “Executive Compensation — Share Option Plan” section later in this proxy statement), and the corporate governance and nominating committee. All of the committee charters, as adopted by our board of directors, are available on our website at www.oncothyreon.com under “Corporate Governance.” The functions performed by each committee and the members of each committee are described below.

Audit Committee

The audit committee reviews with our independent registered public accounting firm the scope, results, and costs of the annual audit and our accounting policies and financial reporting. Our audit committee has (i) direct responsibility for the appointment, compensation, retention, and oversight of our independent registered public accounting firm, (ii) establishes procedures for handling complaints regarding our accounting

practices, (iii) authority to engage any independent advisors it deems necessary to carry out its duties, and (iv) appropriate funding to engage any necessary outside advisors. The current members of the audit committee are Daniel Spiegelman (Chairman), W. Vickery Stoughton and Douglas Williams. Christopher Henney was a member of the audit committee until December 2009, when he stepped down from the audit committee in connection with Dr. Williams' appointment. The board of directors has determined that Mr. Spiegelman, the chairman of the audit committee, is an "audit committee financial expert" as that term is defined in Item 407(d)(5) of Regulation S-K promulgated by the SEC. The audit committee report is set forth above. The audit committee reviews and reassesses the adequacy of its charter on an annual basis.

Compensation Committee

The compensation committee oversees our compensation and benefits practices and programs (other than compensation practices of our non-employee directors, which are overseen by the nominating and corporate governance committee), as more fully described in the "Executive Compensation — Compensation Discussion and Analysis" section later in this proxy statement. The current members of the compensation committee are Richard Jackson (Chairman), Christopher Henney and W. Vickery Stoughton. The Compensation Committee Report is set forth in the "Executive Compensation — Compensation Committee Report" section later in this proxy statement.

Corporate Governance and Nominating Committee

The corporate governance and nominating committee reviews candidates and makes recommendations of nominees for the board of directors. The corporate governance and nominating committee also oversees our corporate governance and compliance activities and compensation practices with respect to our non-employee directors. The corporate governance and nominating committee has not adopted a formal policy with respect to the consideration of director candidates recommended by stockholders given the lack of stockholder recommendations; however, if a stockholder delivered a written request to our corporate secretary which satisfied the notice, information, and other requirements set forth in our bylaws with respect to stockholder proposals, it would receive appropriate consideration. The corporate governance and nominating committee may consider in the future whether our company should adopt a more formal policy regarding stockholder nominations. The current members of the corporate governance and nominating committee are Christopher Henney (Chairman), Daniel Spiegelman and Richard Jackson.

The corporate governance and nominating committee evaluates the qualifications of all director recommendations that are properly submitted by stockholders, management, members of the board of directors, and to the extent deemed necessary, third-party search firms. We have in the past paid a third party to assist us in identifying, evaluating, and screening potential candidates for nomination to the board of directors, and we may do so in the future. In assessing potential candidates, the corporate governance and nominating committee considers relevant factors, including, among other things, issues of character, judgment, independence, expertise, diversity of experience, depth of experience in the industry in which we compete, length of service, and other commitments. While there are no specific minimum qualifications, qualities or skills that are necessary to serve on the board of directors, the specific traits, abilities and experience that the corporate governance and nominating committee and the board look for in determining candidates for election to the board include, but are not limited to:

- the highest ethical character and shared values with our company;
- reputation consistent with our image;
- significant accomplishments within their respective fields;
- active and former chief executive officers of public companies and scientific, government, educational and non-profit institutions;
- recognized leader in the fields of medicine or biological sciences;
- relevant expertise and experience and the ability to offer advice and guidance; and
- ability to exercise sound business judgment.

In addition, the corporate governance and nominating committee considers the suitability of each candidate, taking into account the current members of the board of directors, in light of the current size and composition of the board of directors. The corporate governance and nominating committee does not have a formal policy with regard to the consideration of diversity in identifying director nominees, but the corporate governance and nominating committee strives to nominate directors with a variety of complementary skills so that, as a group, the board of directors will possess the appropriate talent, skills, and expertise to oversee the our business. After completion of its evaluation of candidates, the corporate governance and nominating committee will recommend a slate of director-nominees to the board of directors. Each of the nominees named in this proxy statement and standing for election to the board of directors at this annual meeting was recommended by the corporate governance and nominating committee.

Communications with the Board of Directors

Stockholders wishing to communicate with our board of directors should send their communications in writing to the attention of our corporate secretary at Oncothyreon Inc., 2601 Fourth Avenue, Suite 500, Seattle, Washington 98121. Our corporate secretary will review the communication, and if the communication is determined to be relevant to our operations, policies, or procedures (and not vulgar, threatening, or of an inappropriate nature not relating to our business), the communication will be forwarded to our Chairman of the Board. If the communication requires a response, our corporate secretary will assist the board of directors in preparing the response.

Compensation of Directors

We pay our non-employee directors an annual cash fee of \$50,000 for their service on our board of directors and its committees. We also pay the chairman of our board an additional annual fee of \$50,000, the Chairman of our audit committee an additional annual fee of \$25,000, and the Chairmen of our other standing committees of the board of directors an additional annual fee of \$5,000 each. In addition, each non-employee member of our board is entitled to an annual restricted share unit grant equal to \$30,000 divided by the closing price of our common stock on the NASDAQ Global Market on the date of grant. On March 11, 2009 and June 12, 2009, each board member (excluding Dr. Williams who did not join the board of directors until October 2009) received 19,352 RSUs and 2,076 RSUs, respectively, for fiscal year 2008. On December 4, 2009 each board member was awarded 6,185 RSUs for fiscal year 2009. Board members receive cash compensation in U.S. dollars. We also reimburse our directors for travel and other necessary business expenses incurred in the performance of their services for us.

Fiscal Year 2009 Director Compensation

The following table sets forth compensation information for our non-employee directors for the year ended December 31, 2009. The table excludes Dr. Kirkman who did not receive any compensation from us in his role as director in the year ended December 31, 2009. All compensation numbers are expressed in U.S. dollars.

<u>Name</u>	<u>Fees Earned or Paid in Cash (\$)</u>	<u>Stock Awards (\$)(1)(2)(3)</u>	<u>Total (\$)</u>
Christopher Henney	\$105,000	\$56,513	\$161,513
Richard Jackson	55,000	56,513	111,513
Daniel Spiegelman	75,000	56,513	131,513
W. Vickery Stoughton	50,000	56,513	106,513
Douglas Williams	12,500	30,000	42,500

- (1) These amounts represent the aggregate grant date fair value of RSUs granted in 2009.
- (2) As of December 31, 2009, our non-employee directors held RSUs and outstanding options to purchase the number of shares of common stock as follows: Dr. Henney (53,602 options, 84,156 RSUs); Dr. Jackson

(9,362 options, 34,156 RSUs); Mr. Stoughton (13,594 options, 34,156 RSUs); Mr. Spiegelman (zero options, 27,613 RSUs); Dr. Williams (zero options, 6,185 RSUs).

- (3) Each RSU may be converted into one share of our common stock at the end of the grant period, which is five years for each of the RSUs granted prior to June 12, 2009 and two years for each of the RSUs granted on or after June 12, 2009.

EXECUTIVE COMPENSATION

Compensation Discussion and Analysis

Compensation Philosophy and Objectives

Historically, the principal objectives of the compensation policies and programs of Oncothyreon and its predecessor corporation, Biomira Inc. (which we will refer to throughout this discussion as “us,” “our,” and “we”) have been to attract and retain senior executive management, to motivate their performance toward clearly defined corporate goals, and to align their long term interests with those of our stockholders. In addition, our compensation committee believes that maintaining and improving the quality and skills of our management and appropriately incentivizing their performance are critical factors affecting our stockholders’ realization of long-term value.

Our compensation programs have reflected, and for the foreseeable future should continue to reflect, the fact that we are a biopharmaceutical company whose principal compounds are still in early stage clinical trials and subject to regulatory approval. As a result, our revenues have been and will continue to be limited, and we expect to continue to incur net losses for at least the next several years. In an effort to preserve cash resources, our historical compensation programs have focused heavily on long-term equity incentives relative to cash compensation. With a relatively larger equity weighting, this approach seeks to place a substantial portion of executive compensation at risk by rewarding our executive officers, in a manner comparable to our stockholders, for achieving our business and financial objectives.

In addition to long-term equity incentives, we have also implemented a performance-based cash bonus program for our executive officers and employees. Payments under this performance-based cash bonus program have been based on achievement of pre-established corporate and individual performance goals, with the relative weighting among goals individualized to reflect each person’s unique contributions. With respect to our executive officers, 100% of their goals are tied to corporate objectives to reflect the fact that our executive officers make key strategic decisions influencing our company as a whole and thus, it is more appropriate to reward performance against corporate objectives.

We design and implement compensation programs that combine both long term equity elements and cash incentive elements based on annual performance objectives. Our compensation committee has not, however, adopted any formal or informal policies or guidelines for allocating compensation between cash and equity compensation or among different forms of non-cash compensation. The compensation committee’s philosophy is that a substantial portion of an executive officer’s compensation should be performance-based, whether in the form of equity or cash compensation. In that regard, we expect to continue to use options or other equity incentives as a significant component of compensation because we believe that they align individual compensation with the creation of stockholder value, and we expect any payments under cash incentive plans to be tied to annual performance targets.

Role of Our Compensation Committee

Our compensation committee is comprised of three non-employee members of our board of directors, Dr. Henney, Dr. Jackson and Mr. Stoughton, each of whom is an independent director under the rules of The NASDAQ Global Market, an “outside director” for purposes of Section 162(m) of the United States Internal Revenue Code of 1986, as amended, which we call Section 162(m), and a “non-employee director” for purposes of Rule 16b-3 under the Exchange Act.

Our compensation committee approves, administers, and interprets our executive compensation and benefit policies. Our compensation committee acts exclusively as the administrator of our equity incentive plans and approves all grants to employees, including our executive officers. Our compensation committee operates pursuant to a written charter under which our board of directors has delegated specific authority with respect to compensation determinations. Among the responsibilities of our compensation committee are the following:

- evaluating our compensation practices and assisting in developing and implementing our executive compensation program and philosophy;
- establishing a practice, in accordance with the rules of The NASDAQ Global Market, of determining the compensation earned, paid, or awarded to our chief executive officer independent of input from him; and
- establishing a policy, in accordance with the rules of The NASDAQ Global Market, of reviewing on an annual basis the performance of our other executive officers with assistance from our chief executive officer and determining what we believe to be appropriate compensation levels for such officers.

The compensation committee's charter allows the committee to form subcommittees for any purpose that the committee deems appropriate and may delegate to such subcommittees such power and authority as the committee deems appropriate. For example, the compensation committee has delegated certain powers and authority to the new employee option committee as set forth in the "— Share Option Plan" section later in this proxy statement.

Our chief executive officer actively supports the compensation committee's work by providing information relating to our financial plans, performance assessments of our executive officers, and other personnel related data. In particular, our chief executive officer, as the person to whom our other executive officers report, is responsible for evaluating individual officers' contributions to corporate objectives as well as their performance relative to divisional and individual objectives. Our chief executive officer, on an annual basis at or shortly after the end of each year, makes recommendations to the compensation committee with respect to merit salary increases, cash bonuses, and stock option grants or other equity incentives for our other executive officers. Our compensation committee meets to evaluate, discuss, modify or approve these recommendations. Without the participation of the chief executive officer, the compensation committee as part of the annual review process conducts a similar evaluation of the chief executive officer's contribution and performance and makes determinations, at or shortly after the end of each year, with respect to merit salary increases, bonus payments, stock option grants, or other forms of compensation for our chief executive officer.

Our compensation committee has the authority under its charter to engage the services of outside advisors, experts, and others for assistance. The compensation committee did not rely on any outside advisors for purposes of structuring our 2009 compensation plan but did rely on the survey data described below.

Competitive Market Review for 2009

The market for experienced management is highly competitive in the life sciences and biopharmaceutical industries. We seek to attract and retain the most highly qualified executives to manage each of our business functions, and we face substantial competition in recruiting and retaining management from companies ranging from large and established pharmaceutical companies to entrepreneurial early stage companies. We expect competition for appropriate technical, commercial, and management skills to remain strong for the foreseeable future.

In making our executive compensation determinations for 2009, we benchmarked our compensation levels using U.S. professional salary surveys. These include:

- Radford Global Life Sciences Salary Survey 2009; and
- WorldatWork Salary Survey 2009.

In evaluating the survey data, our compensation committee compared our compensation practices and levels for each compensation component including base salary, annual performance-based bonuses, and equity compensation with the salary survey data. This information was used to determine appropriate levels of compensation based on market benchmarks for various functional titles. Based on this data, our compensation committee believes that our levels of total compensation for our executive officers generally fell at about the 50th percentile.

Peer Group Companies for 2009

In analyzing our executive compensation program for 2009, the compensation committee compared certain aspects of compensation, including base salary and equity incentives, to those provided by our peer group. This peer group included small biotechnology companies with which we compete for executive talent. For 2009, our peer group consisted of:

- Cell Therapeutics, Inc.;
- Omeros Corporation;
- Seattle Genetics, Inc.;
- Trubion Pharmaceuticals Inc.; and
- ZymoGenetics Inc.

Principal Elements of Executive Compensation

Our executive compensation program consists of five components:

- base salary;
- annual performance-based cash bonuses;
- equity-based incentives;
- benefits; and
- severance/termination protection.

We believe that each of these components, combining both short and long-term incentives, offers a useful element in achieving our compensation objectives and that collectively these components have been effective in achieving our corporate goals.

Annual Review Process

Our compensation committee reviews data and makes executive compensation decisions on an annual basis, typically during the last quarter of the year or the first quarter of the new year. In connection with that process, executive officers are responsible for establishing and submitting for review to our chief executive officer (and in the case of our chief executive officer, directly to the compensation committee) their departmental goals and financial objectives. Our chief executive officer then compiles the information submitted and provides it, along with information relating to his own personal goals and objectives, to our compensation committee for review. Our compensation committee, including our chief executive officer with respect to all officers other than himself and excluding our chief executive officer with respect to discussions of his own compensation, reviews, considers, and may amend the terms and conditions proposed by management.

As part of the annual review process, our compensation committee makes its determinations of changes in annual base compensation for executive officers based on numerous factors, including performance over the prior year, both individually and relative to corporate or divisional objectives, established corporate and divisional objectives for the next year, our operating budgets, and a review of survey data relating to base compensation for the position at companies we have identified within our peer group. During the annual

review process, our compensation committee also considered each executive's equity incentive position, including the extent to which he or she was vested or unvested in his or her equity awards and the executive's aggregate equity incentive position.

From time to time, our compensation committee may make off-cycle adjustments in executive compensation as it determines appropriate. For example, in March 2009, our compensation committee considered and approved a special cash bonus for each of our chief executive officer and chief operating officer in connection with the successful completion of the 2008 transaction with Merck KGaA.

Weighting of Compensation Elements

Our compensation committee's determination of the appropriate use and weight of each element of executive compensation is subjective, based on its view of the relative importance of each element in meeting our overall objectives and factors relevant to the individual executive. Like many biopharmaceutical companies with clinical-stage products, we seek to place a significant amount of each executive's total potential compensation "at risk" based on performance.

Base Salary

Base salary for our chief executive officer and other officers reflects the scope of their respective responsibilities, their relative seniority and experience, and competitive market factors. Salary adjustments are typically based on competitive conditions, individual performance, changes in job duties, and our budget requirements.

In our offer letter with Dr. Kirkman, we agreed to pay him an initial base salary at \$320,000. Our compensation committee set Dr. Kirkman's base salary based on his experience and our compensation committee's view of market compensation for chief executive officers of public, early stage biopharmaceutical companies. For 2007, Dr. Kirkman's base salary remained at \$320,000. On January 14, 2008, Dr. Kirkman's base salary was increased to \$375,000 for 2008. Dr. Kirkman's base salary remained at \$375,000 for 2009, but on December 3, 2009, the compensation committee increased Dr. Kirkman's salary to \$386,250 for 2010.

For a discussion of the base salaries of our other executive officers, see the section captioned "— Employment Agreements and Offer Letters."

Variable Cash Compensation — Incentive Bonuses

We pay performance-based bonuses to our executive officers and other employees pursuant to our performance review policy, which we believe enhances each individual employee's incentive to contribute to corporate objectives and aligns their interests with our stockholders.

Under the performance review policy, our executive officers and employees are eligible to receive bonuses based on achievement of pre-established corporate and individual performance goals, but the weighting among the goals is individualized to each person to reflect his or her unique contributions to the company. Each goal is assigned a percentage for each person based on the importance to us that the goal be achieved with respect to that person. Generally, achievement of a particular goal will result in the payment of the expected level of incentive compensation associated with such goal. Partial achievement can result in the payment of less or no incentive compensation and likewise, superior achievement of any performance goal may result in the payment in excess of the target level of incentive compensation; however, there is not a fixed formula for determining the amount of incentive compensation for partial or above target achievement. Rather, in all cases, the compensation committee, with respect to executive officers, and our chief executive officer, with respect to other employees, retains discretion to increase or decrease variable cash incentive compensation as it or he determines appropriate, based on actual achievement against the goals, whether performance is at, above or below the target for the goal.

Typically, the maximum incentive compensation to which an executive officer or employee is entitled is based on a percentage of such individual's base salary. For example, if (i) an executive's base salary is \$100,000, (ii) he is eligible to receive a bonus up to 50% of his base salary, or \$50,000, (iii) the compensation

committee has established four performance goals, each weighted at 25% and (iv) the compensation committee determines that the executive has achieved two of the four performance goals, then, the executive would be eligible to receive, subject to the discretion of the compensation committee, a bonus of \$25,000.

Performance goals may be both qualitative and quantitative and are designed to be specific, measurable, relevant to our company, completed within a fixed period of time and defined by significant achievements that go beyond an individual’s job responsibilities. Although performance goals are intended to be achievable with significant effort, we do not expect that every goal will be actually attained in any given year.

Performance goals are generally split between corporate and personalized individual performance objectives. With respect to our executive officers, 100% of their goals are tied to corporate objectives to reflect the fact that our executive officers make key strategic decisions influencing the company as a whole and thus, it is more appropriate to reward performance against corporate objectives. Reflective of the decreasing level of influence within our company as a whole, with respect to our director-level and senior director-level employees, at least 60% of the performance objectives must be linked to corporate objectives and with respect to non-executive management and senior nonexecutive management employees, at least 40% of the performance objectives must be linked to corporate objectives. In each case the remaining performance objectives will be linked to personalized individual performance goals based on the nature of the individual’s role within our company. We designed the performance review policy in this manner based on our belief that more senior personnel are in a greater position to influence the achievement of corporate objectives, and therefore, a greater number of their performance goals should be tied to corporate rather than personalized individual objectives.

Our compensation committee is responsible for setting performance goals, assessing whether such goals have been achieved and determining the amount of bonuses (if any) to be paid with respect to our executive officers, while the chief executive officer bears such responsibility for other employees. Performance goals for the upcoming year are typically established at or shortly after the end of the prior year. Assuming that a determination is made that a bonus has been earned, we will typically pay bonuses to employees shortly after the end of each year and to executive officers shortly after the first scheduled meeting of the compensation committee each year. An individual must remain actively employed by the company through the actual date of payment to receive a bonus.

The weighting of bonuses between the performance goals varies from executive officer to executive officer based on an analysis of each executive officer’s role and position within the company. For example, because Mr. Karan holds a key leadership position as our corporate controller, we felt it appropriate to more heavily weight his bonus on achievement with respect to a cash position target. As both Dr. Hausman and Dr. Peterson were new employees hired in 2009 and not involved in the goal setting for 2009, neither is reflected in the table below. The allocation between the corporate performance goals for each executive officer for 2009 is set forth in the following table:

Named Executive Officer	Cash	Market	Phase 2	Pre-Clinical	Strategic	Transfer of
	Position	Capitalization	Progression	Assessment	Planning	Corporate
	(1)	(2)	(3)	(4)	(5)	Activities to
						Seattle
						Headquarters
	(1)	(2)	(3)	(4)	(5)	(6)
Robert Kirkman	35%	10%	30%	15%	5%	5%
Gary Christianson	20	5	20	15	20	20
Shashi Karan	70	10	—	—	—	20

- (1) As of December 31, 2009, we had sufficient cash and short term investments to fund our operations at least through December 31, 2010, as determined in the discretion of our board of directors.
- (2) Attain a market capitalization of at least \$38 million as of December 31, 2009.
- (3) Continued progress through a Phase 2 trial of a product candidate or the license or acquisition of a product candidate in or beyond Phase 2.
- (4) Timely completion of outside assessments of the preclinical package for PX-478 and PX-866.

- (5) Timely establish and implement to the extent possible in 2009 strategic planning with respect to PX-478 and PX-866.
- (6) Completion of the transfer of all corporate activities to the Seattle headquarters by December 31, 2009 within budget.

In addition to the corporate performance goals set forth above, Mr. Karan was given an additional set of individual performance goals. The 2009 individual performance goals for Mr. Karan related to the establishment of an internal management reporting system (25%), improvements in internal controls (25%), the liquidation of certain company subsidiaries (20%), support of financing activities (20%) and the establishment of an internal system to value goodwill and test for impairment (10%).

The target and actual bonus amounts for 2009 for our named executive officers were as follows, based on achievement against the corporate performance goals (as discussed above):

Named Executive Officer	Base Salary (\$)	Annual Target as Percentage of Base Salary	Target Bonus (\$)	Target Goals Achieved	2009 Incentive Bonus Actually Paid (\$)
Robert Kirkman	\$375,000	50%	\$187,500	70%(1)	\$131,250
Gary Christianson	250,000	35	87,500	80(2)	70,000
Diana Hausman	290,000	30	87,000	100(3)	29,000(3)
Scott Peterson	175,000	25	43,750	100(3)	18,229(3)
Shashi Karan	165,000	20	33,000	90(4)	29,700

- (1) Dr. Kirkman earned 70% of his performance goals based on our achievement against all of the corporate performance goals (as discussed above) except for the achievement of the “Phase 2 Progression” goal, which was not met.
- (2) Mr. Christianson earned 80% of his performance goals based on our achievement against all of the corporate performance goals (as discussed above) except for the achievement of the “Phase 2 Progression” goal, which was not met.
- (3) As both Dr. Hausman and Dr. Peterson were new employees hired in 2009 and not involved in the goal setting for 2009, the compensation committee approved that their bonuses be paid at target for their high level of performance during 2009, pro-rated for their length of service during 2009. Specifically, when deciding to pay their bonuses at target, the compensation committee took note of the substantial contributions by Drs. Hausman and Peterson to the development of PX-866.
- (4) Mr. Karan earned 90% of his performance goals based on our achievement of the corporate performance goals (as discussed above) and 90% achievement of his individual performance goals (as discussed above).

In December 2009, the compensation committee approved target percentages for 2010, which percentages remain unchanged from 2009. Dr. Kirkman, Mr. Christianson, Dr. Hausman, Dr. Peterson and Mr. Karan are eligible to receive in 2010 incentive bonuses under our performance review policy of up to 50%, 35%, 30%, 25% and 20%, respectively, of their base salary. The 2010 performance goals for our executive officers are expected to be related to various corporate objectives, including objectives related to our financial condition, development of our product candidates and certain business development activities (although the weighting for such performance goals will differ between such executive officers).

Equity-based Incentives

We grant equity-based incentives to employees, including our executive officers, in order to create a corporate culture that aligns employee interests with stockholder interests. We have not adopted any specific stock ownership guidelines, and our equity incentive plans have provided the principal method for our executive officers to acquire an equity position in our company.

Historically, we have granted options to our executive officers under our share option plan. Our share option plan permits the grant of stock options for shares of common stock. All equity incentive programs are administered by our compensation committee (other than grants of restricted share units to non-employee

directors, which are overseen by the corporate governance and nominating committee and grants of stock options to certain new employees by the new employee option committee). To date, our equity incentive grants have consisted of options under the share option plan.

The size and terms of any initial option grants to new employees, including executive officers, at the time they join us is based largely on competitive conditions applicable to the specific position. For non-executive officer grants, our compensation committee has pre-approved a matrix showing appropriate levels of option grants for use in making offers to new employees.

In making its determination of the size of initial option grants for our current executive officers, our board of directors relied in part on survey data and peer group comparisons. On May 3, 2007, Dr. Kirkman, our chief executive officer, received an option to purchase 137,537 shares of our common stock at an exercise price per share of Cdn. \$8.04, in connection with the terms of his offer letter, under which he was eligible to receive an additional option award to purchase a number of shares equal to 3% of any shares issued during his first year of employment with us. Such grant has vested or will vest, in four equal annual installments of 34,384 shares on May 3, 2008, 2009, 2010, and 2011. Consistent with the provisions of our share option plan as in effect at the time of grant, the option was priced at the closing price of our shares of common stock on the Toronto Stock Exchange on the day immediately prior to the date of board approval. The exercise prices of all outstanding options granted to Dr. Kirkman prior to April 2008 were based on the Toronto Stock Exchange trading price and were priced in Canadian dollars. Beginning in April 2008, the exercise price of option grants were based on The NASDAQ Global Market trading price and were priced in U.S. dollars. On June 4, 2008, Dr. Kirkman received an additional option to purchase 45,000 shares of our common stock at an exercise price per share of \$3.43. This grant has vested or will vest, in four equal annual installments of 11,250 shares on June 4, 2009, 2010, 2011 and 2012. On March 11, 2009, Dr. Kirkman also received an additional option to purchase 100,000 shares of our common stock at an exercise price per share of \$1.10. This grant has vested or will vest, in four equal annual installments of 25,000 shares on March 11, 2010, 2011, 2012 and 2013. Also, on December 3, 2009, Dr. Kirkman received an additional option to purchase 200,000 shares of our common stock at an exercise price per share of \$4.71. This grant will vest in four equal annual installments of 50,000 shares on December 3, 2010, 2011, 2012 and 2013. Our compensation committee believes that the size and terms of Dr. Kirkman's stock option grants were reasonable given our early stage of product development and skill requirements for senior management, Dr. Kirkman's industry experience and background, and equity compensation arrangements for experienced chief executive officers at comparably situated companies.

In addition, our practice has been to grant refresher options to employees, including executive officers, when our board of directors or compensation committee believes additional unvested equity incentives are appropriate as a retention incentive. For example, in March 2009 and again in December 2009, we granted refresher options to some of our employees (including our executive officers) pursuant to the standard vesting and other terms of our share option plan. We expect to continue this practice in the future in connection with the compensation committee's annual performance review, generally conducted at the beginning of each year. In making its determination concerning additional option grants, our compensation committee will also consider, among other factors, prior individual performance in his or her role as an executive officer, or employee, of our company, and the size of the individual's equity grants in the then-current competitive environment. Where our compensation committee has approved option grants for executive officers or other employees during a regular quarterly closed trading window under our insider trading policy, we have priced the options based on the closing sales price of our common stock on the first trading day after the window opened.

To date, our equity incentives have been granted with time-based vesting. Most option grants approved by the compensation committee vest and become exercisable in four equal annual installments beginning on the first anniversary of the grant date. We expect that additional option grants to continuing employees will typically vest over the same schedule. Although our practice in recent years has been to provide equity incentives principally in the form of stock option grants that vest over time, our compensation committee may consider alternative forms of equity in the future, such as performance shares, restricted share units or

Table of Contents

restricted stock awards with alternative vesting strategies based on the achievement of performance milestones or financial metrics.

As noted above, consistent with the terms of the share option plan and subject to the policy against pricing options during regularly scheduled closed quarterly trading windows, we have historically priced option grants based on the closing sales price of our shares of common stock trading on the Toronto Stock Exchange. On April 3, 2008 our board of directors amended our share option plan to provide that each option granted pursuant to the plan be priced at the closing price of our shares of common stock on The NASDAQ Global Market on the day of the option grant.

During 2009, we granted, in the aggregate, the following options to our executive officers as follows:

<u>Named Executive Officer</u>	<u>Options (#)</u>
Robert Kirkman	300,000
Gary Christianson	130,000
Diana Hausman	80,000
Scott Peterson	75,000
Shashi Karan	57,500

Benefits

We provide the following benefits to our named executive officers, generally on the same basis provided to all of our employees:

- health, dental insurance and vision (for the employee and eligible dependents);
- flexible spending accounts for medical and dependent care;
- life insurance;
- employee assistance plan (for the employee and eligible dependents);
- short-and long-term disability, accidental death and dismemberment; and
- a 401(k) plan with an employer match into the plan.

Severance/Termination Protection

We entered into offer letters with our named executive officers when each was recruited for his or her current position. These offer letters provide for general employment terms and, in some cases, benefits payable in connection with the termination of employment or a change in control. The compensation committee considers such benefits in order to be competitive in the hiring and retention of employees, including executive officers.

In addition, these benefits are intended to incentivize and retain our officers during the pendency of a proposed change in control transaction and align the interests of our officers with our stockholders in the event of a change in control. The compensation committee believes that proposed or actual change in control transactions can adversely impact the morale of officers and create uncertainty regarding their continued employment. Without these benefits, officers may be tempted to leave the company prior to the closing of the change in control, especially if they do not wish to remain with the entity after the transaction closes. Such departures could jeopardize the consummation of the transaction or our interests if the transaction does not close and we remain independent.

All arrangements with the named executive officers and the potential payments that each of the named executive officers would have received if a change in control or termination of employment would have occurred on December 31, 2009, are described under “— Employment Agreements and Offer Letters” and “— Potential Payments on Termination or Change in Control.”

Accounting and Tax Considerations

Section 162(m) limits the amount that we may deduct for compensation paid to our chief executive officer and to each of our four most highly compensated officers to \$1,000,000 per person, unless certain exemption requirements are met. Exemptions to this deductibility limit may be made for various forms of “performance-based” compensation. In addition to salary and bonus compensation, upon the exercise of stock options that are not treated as incentive stock options, the excess of the current market price over the option price, or option spread, is treated as compensation and accordingly, in any year, such exercise may cause an officer’s total compensation to exceed \$1,000,000. Under certain regulations, option spread compensation from options that meet certain requirements will not be subject to the \$1,000,000 cap on deductibility. While the compensation committee cannot determine with certainty how the deductibility limit may impact our compensation program in future years, the compensation committee intends to maintain an approach to executive compensation that strongly links pay to performance. While the compensation committee has not adopted a formal policy regarding tax deductibility of compensation paid to our chief executive officer and our four most highly compensated officers, the compensation committee intends to consider tax deductibility under Section 162(m) as a factor in compensation decisions.

Compensation Committee Interlocks and Insider Participation

During 2009, Richard Jackson, Christopher Henney and W. Vickery Stoughton served on our compensation committee. During 2009, no member of our compensation committee was an officer or employee or formerly an officer of our company, and no member had any relationship that would require disclosure under Item 404 of Regulation S-K of the Securities Exchange Act of 1934. None of our executive officers has served on the board of directors or the compensation committee (or other board committee performing equivalent functions) of any other entity, one of whose executive officers served on our board of directors or on our compensation committee.

Compensation Committee Report

The information contained in this report will not be deemed to be “soliciting material” or to be “filed” with the SEC, nor will such information be incorporated by reference into any future filing under the Securities Act or the Exchange Act, except to the extent that we specifically incorporate it by reference in such filing.

In reliance on the reviews and discussions referred to above and the review and discussion of the section captioned “Compensation Discussion and Analysis” with our management, the compensation committee has recommended to the board of directors and the board of directors has approved, that the section captioned “Compensation Discussion and Analysis” be included in this proxy statement and incorporated by reference in our Annual Report on Form 10-K.

COMPENSATION COMMITTEE

*Richard Jackson, Chairman
Christopher Henney
W. Vickery Stoughton*

Summary Compensation Table — 2009, 2008 and 2007

The following table sets forth the compensation earned by or awarded to, as applicable, our principal executive officer, principal financial officer and other executive officers during each of 2007, 2008 and 2009. We refer to these officers in this proxy statement as the “named executive officers.”

Name and Principal Position	Year	Salary (\$)	Option Awards \$(1)	Non-Equity	All	Total (\$)
				Incentive Plan Compensation \$(2)	Other Compensation \$(3)	
Robert Kirkman(4)	2009	\$375,000	\$796,412	\$131,250	\$11,586	\$1,314,248
President, Chief Executive Officer and Director	2008	375,000	131,737	176,250	15,066	698,053
	2007	320,000	812,100	116,000	10,272	1,258,372
Shashi Karan(5)	2009	165,000	183,932	29,700	5,961	384,593
Corporate Controller and Corporate Secretary	2008	112,500	29,275	22,500	3,575	167,850
Gary Christianson(6)	2009	250,000	380,868	70,000	7,836	708,704
Chief Operating Officer	2008	247,200	43,912	93,500	31,198	415,810
	2007	92,769	85,831	40,000	2,923	221,523
Diana Hausman(7)	2009	96,667	289,222	29,000	3,012	417,501
Vice President, Clinical Development						
Scott Peterson(8)	2009	72,917	287,250	18,229	2,109	380,505
Vice President, Research and Development						

- (1) These amounts represent the aggregate grant date fair value of option awards for fiscal years 2007, 2008 and 2009. These amounts do not represent the actual amounts paid to or realized by the named executive officer for these awards during fiscal years 2007, 2008 or 2009. The value as of the grant date for stock options is recognized over the number of days of service required for the grant to become vested. For a more detailed description of the assumptions used for purposes of determining grant date fair value, see “Part II — Item 7 — Management’s Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Significant Judgments and Estimates — Stock-Based Compensation” and “Note 11 — Stock-Based Compensation” of the audited financial statements included in our Annual Report on Form 10-K.
- (2) The amounts in this column represent total performance-based bonuses earned for services rendered during the year under our performance review policy, for 2007, 2008 and 2009, for executive officers, in which all employees were eligible to participate. Under the applicable bonus plan for each year, each executive was eligible to receive a cash bonus based on achievement of a combination of corporate or divisional objectives. Please see “ — Compensation Discussion and Analysis — Variable Cash Compensation — Incentive Bonuses” above for additional information regarding our variable cash compensation policies for executive officers.
- (3) Except as disclosed in the other footnotes, the amounts in this column consist of contributions made by us pursuant to our 401(k) plan.
- (4) Amounts listed in “All Other Compensation” include life insurance premiums of \$336 for each of 2007, 2008 and 2009.
- (5) Mr. Karan’s employment with the Company began on April 1, 2008 and he was appointed principal financial officer and principal accounting officer effective January 1, 2009. Amounts listed in “All Other Compensation” include life insurance premiums of \$252 and \$336 for 2008 and 2009, respectively.
- (6) Mr. Christianson’s employment with the Company began on August 1, 2007. Amounts listed in “All Other Compensation” include life insurance premiums of \$140, \$336 and \$336 for 2007, 2008 and 2009, respectively, and \$22,246 for relocation costs in 2008.
- (7) Dr. Hausman’s employment with the Company began on September 1, 2009. Amounts listed in “All Other Compensation” include life insurance premiums of \$112.
- (8) Dr. Peterson’s employment with the Company began on August 1, 2009. Amounts listed in “All Other Compensation” include life insurance premiums of \$140.

Grants of Plan-Based Awards

The following table sets forth each grant of an award made to a named executive officer during 2009 under any of our incentive plans or equity plans.

Name	Grant Date(1)	Estimated Future Payouts Under Non-Equity Incentive Plan Awards Target\$(2)(3)	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 \$(4)
Robert L. Kirkman(5)	March 11, 2009	\$187,500	100,000	\$1.10	\$ 86,689
	December 3, 2009	—	200,000	4.71	709,723
Shashi Karan(6)	March 11, 2009	33,000	7,500	1.10	6,502
	December 3, 2009	—	50,000	4.71	177,431
Gary Christianson(7)	March 11, 2009	87,500	30,000	1.10	26,007
	December 3, 2009	—	100,000	4.71	354,862
Diana Hausman(8)	October 1, 2009	87,000	30,000	4.96	111,791
	December 3, 2009	—	50,000	4.71	177,431
Scott Peterson(9)	August 3, 2009	43,750	25,000	6.56	109,819
	December 3, 2009	—	50,000	4.71	177,431

- (1) Consistent with the provisions of our share option plan in effect at the date of grant, options were priced at the closing sales price of our shares of common stock in trading on The NASDAQ Global Market on the grant date.
- (2) Performance bonuses were earned in 2009. The actual amounts paid to each of the named executive officers for 2009 are set forth in the individual footnotes below.
- (3) There was no set “Threshold” or “Maximum” performance bonus amounts established with respect to our 2009 non-equity incentive plan awards, pursuant to the description set forth under the heading “ — Compensation Discussion and Analysis — Variable Cash Compensation — Incentive Bonuses.”
- (4) These amounts represent the grant date fair value of option awards granted in 2009. These amounts do not represent the actual amounts paid to or realized by the named executive officer for these awards during fiscal year 2009. The value as of the grant date for stock options is recognized over the number of days of service required for the grant to become vested. For a more detailed description of the assumptions used for purposes of determining grant date fair value, see “Part II — Item 7 — Management’s Discussion and Analysis of Financial Condition and Results of Operations — Critical Accounting Policies and Significant Judgments and Estimates — Stock-Based Compensation” and “Note 11 — Stock-Based Compensation” of the audited financial statements included in our Annual Report on Form 10-K.
- (5) On December 3, 2009, the compensation committee approved a performance bonus of \$131,250 under the performance review policy.
- (6) On December 3, 2009, the compensation committee approved a performance bonus of \$29,700 under the performance review policy.
- (7) On December 3, 2009, the compensation committee approved a performance bonus of \$70,000 under the performance review policy.
- (8) On December 3, 2009, the compensation committee approved a performance bonus of \$29,000 under the performance review policy, which represents a bonus paid at target and pro-rated for her length of service during 2009.
- (9) On December 3, 2009, the compensation committee approved a performance bonus of \$18,229 under the performance review policy, which represents a bonus paid at target and pro-rated for his length of service during 2009.

Outstanding Equity Awards at 2009 Fiscal Year-End

The following table sets forth the equity awards outstanding at December 31, 2009 for each of the named executive officers. Except as set forth in the footnotes to the following table, each stock option is fully vested.

Name	Option Awards			
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable	Option Exercise Price (\$Cdn. or \$U.S.)(1)	Option Expiration Date
Robert L. Kirkman	450,000	—(2)	Cdn. \$7.38	August 29, 2014
	68,769	68,768(3)	Cdn. \$8.04	May 3, 2015
	11,250	33,750(4)	\$3.43	June 4, 2016
	—	100,000(5)	\$1.10	March 11, 2017
	—	200,000(6)	\$4.71	December 3, 2017
Shashi K. Karan	2,500	7,500(4)	\$3.43	June 4, 2016
	—	7,500(5)	\$1.10	March 11, 2017
	—	50,000(6)	\$4.71	December 3, 2017
Gary Christianson	8,333	8,333(7)	Cdn. \$6.72	June 29, 2015
	3,750	11,250(4)	\$3.43	June 4, 2016
	—	30,000(5)	\$1.10	March 11, 2017
	—	100,000(6)	\$4.71	December 3, 2017
Diana Hausman	—	30,000(8)	\$4.96	September 1, 2017
	—	50,000(6)	\$4.71	December 3, 2017
Scott Peterson	—	25,000(9)	\$6.56	August 1, 2017
	—	50,000(6)	\$4.71	December 3, 2017

- (1) In April 2008, the board of directors approved an amendment to the Company's amended and restated share option plan, which provided that the exercise price of any future grants would equal the closing price of the Company's common stock traded on The NASDAQ Global Market on the date of grant. Unless otherwise indicated, all exercise prices are denominated in U.S. dollars.
- (2) This stock option fully vests on August 29, 2009, and vests at a rate of 1/3 annually on the anniversary of grant.
- (3) This stock option fully vests on May 3, 2011, and vests at a rate of 1/4 annually on the anniversary of grant.
- (4) This stock option fully vests on June 4, 2012, and vests at a rate of 1/4 annually on the anniversary of grant.
- (5) This stock option fully vests on March 11, 2013, and vests at a rate of 1/4 annually on the anniversary of grant.
- (6) This stock option fully vests on December 3, 2013, and vests at a rate of 1/4 annually on the anniversary of grant.
- (7) This stock option fully vests on June 29, 2011, and vests at a rate of 1/4 annually on the anniversary of grant.
- (8) This stock option fully vests on September 1, 2013, and vests at a rate of 1/4 annually on the anniversary of grant.
- (9) This stock option fully vests on August 1, 2013, and vests at a rate of 1/4 annually on the anniversary of grant.

Option Exercises and Stock Vested

None of our named executive officers exercised stock options during 2009. We have not granted any stock awards to date.

Employment Agreements and Offer Letters

Unless stated otherwise, all compensation data in the section below is expressed in U.S. dollars.

Employee Benefit Plans

Our share option plan, in which our employees and officers participate, provides for the acceleration of vesting of awards in connection with or following a change in control of the company. A “change in control” shall be deemed to have occurred if (i) our board of directors passes a resolution to the effect that, for purposes of the share option plan, a change in control has occurred or (ii) any person or any group of two or more persons acting jointly or in concert becomes the beneficial owner, directly or indirectly, or acquires the right to control or direct, twenty-five (25)% per cent or more of our outstanding voting securities or any successor entity in any manner, including without limitation as a result of a takeover bid or an amalgamation with any other corporation or any other business combination or reorganization. See “— Share Option Plan” below.

Robert Kirkman

On August 29, 2006, we entered into an offer letter with Robert Kirkman, M.D., our president and chief executive officer. In consideration for his services, Dr. Kirkman was initially entitled to receive a base salary of \$320,000 per year, subject to increases as may be approved by the compensation committee. In January 2008, Dr. Kirkman’s base salary was increased to \$375,000 for 2008. Dr. Kirkman’s base salary remained at \$375,000 for 2009, but in December 2009, the compensation committee increased Dr. Kirkman’s salary to \$386,250 for 2010. Dr. Kirkman is also entitled to receive a performance bonus of up to 50% of his base salary based on his achievement of predetermined objectives and on December 3, 2009, Dr. Kirkman received a performance bonus of \$131,250. In addition, the compensation committee may award, in its sole discretion, Dr. Kirkman additional performance bonuses in recognition of his performance and on March 6, 2009, Dr. Kirkman received a special bonus of \$120,000 for the successful completion of our December 2008 transaction with Merck KGaA.

In accordance with the offer letter of August 29, 2006, Dr. Kirkman was granted an option to purchase 450,000 shares of our common stock at a price of Cdn.\$7.38 per share. As a result of the ProlX acquisition, which we completed in October 2006, and the financing we completed in December 2006, on May 3, 2007, Dr. Kirkman was granted an additional option to purchase 137,537 shares of our common stock on May 3, 2007 at an exercise price of Cdn.\$8.04, in connection with the terms of his offer letter, under which he was eligible to receive an additional option award to purchase a number of shares equal to 3% of any shares issued during his first year of employment with us and 100% of these shares will vest if there is a change of control transaction.

In December 2009, we entered into an amendment to Dr. Kirkman’s offer letter. Pursuant to the terms of the amendment, Dr. Kirkman will receive the following benefits if we undergo a change of control transaction (as defined in the share option plan), in addition to the stock option vesting acceleration described above:

- lump sum payment of two year’s base salary, less required withholding; and
- lump sum payment of two year’s equivalent of performance review bonus at target, less required withholding.

Additionally, if Dr. Kirkman is terminated without cause (as defined in the December 2009 amendment), he will receive the following benefits:

- lump sum payment of one year’s base salary, less required withholding; and
- lump sum payment of one year’s equivalent of performance review bonus at target, less required withholding.

Shashi Karan

We are parties to an offer letter dated March 24, 2008 with Shashi Karan, our corporate controller and corporate secretary. In consideration for his services, Mr. Karan was initially entitled to receive a base salary of \$150,000 per year, subject to increases as may be approved by the compensation committee. In March 2009 and December 2009, Mr. Karan's base salary was increased to \$165,000 for 2009 and \$175,000 for 2010, respectively. Mr. Karan is also entitled to receive a performance bonus of up to 20% of his base salary based on his achievement of predetermined objectives and on December 3, 2009, Mr. Karan received a performance bonus of \$29,700.

In accordance with the offer letter of March 24, 2008, Mr. Karan was granted an option to purchase 10,000 shares of our common stock at a price of \$3.43 per share and 100% of these shares will vest if there is a change of control transaction.

In December 2009, we entered into an amendment to Mr. Karan's offer letter. Pursuant to the terms of the amendment, Mr. Karan will receive the following benefits if we undergo a change of control transaction (as defined in the share option plan), in addition to the stock option vesting acceleration described above:

- lump sum payment of one year's base salary, less required withholding; and
- lump sum payment of one year's equivalent of performance review bonus at target, less required withholding.

Gary Christianson

We are parties to an offer letter dated June 29, 2007 with Gary Christianson, our chief operating officer. In consideration for his services, Mr. Christianson was initially entitled to receive a base salary of \$240,000 per year, subject to increases as may be approved by the compensation committee. In January 2008 and March 2009, Mr. Christianson's base salary was increased to \$247,200 for 2008 and \$250,000 for 2009, respectively. In December 2009, Mr. Christianson's base salary was increased to \$275,000 for 2010. Mr. Christianson is also entitled to receive a performance bonus of up to 35% of his base salary based on his achievement of predetermined objectives and on December 3, 2009, Mr. Christianson received a performance bonus of \$70,000. In addition, the compensation committee may award, in its sole discretion, Mr. Christianson additional performance bonuses in recognition of his performance and on March 6, 2009, Mr. Christianson received a special bonus of \$20,000 for the successful completion of our December 2008 transaction with Merck KGaA.

In accordance with the offer letter of June 29, 2007, Mr. Christianson was granted an option to purchase 16,666 shares of our common stock at a price of Cdn.\$6.72 per share and 100% of these shares will vest if there is a change of control transaction.

In December 2009, we entered into an amendment to Mr. Christianson's offer letter. Pursuant to the terms of the amendment, Mr. Christianson will receive the following benefits if we undergo a change of control transaction (as defined in the share option plan), in addition to the stock option vesting acceleration described above:

- lump sum payment of one year's base salary, less required withholding; and
- lump sum payment of one year's equivalent of performance review bonus at target, less required withholding.

Additionally, if Mr. Christianson is terminated without cause (as defined in the June 2007 offer letter), he will receive the following benefits:

- lump sum payment of nine month's base salary, less required withholding;
- lump sum payment of nine month's equivalent of performance review bonus at target, less required withholding; and
- health insurance coverage for a period of nine months.

Diana Hausman

We are parties to an offer letter dated July 6, 2009 with Diana Hausman, M.D., our vice president of clinical development. In consideration for her services, Dr. Hausman was initially entitled to receive a base salary of \$290,000 per year, subject to increases as may be approved by the compensation committee. In December 2009, Dr. Hausman's base salary was increased to \$298,700 for 2010. Dr. Hausman is also entitled to receive a performance bonus of up to 30% of her base salary based on her achievement of predetermined objectives and on December 3, 2009, Dr. Hausman received a performance bonus of \$29,000.

In accordance with the offer letter of July 6, 2009, Dr. Hausman was granted an option to purchase 30,000 shares of our common stock at a price of \$4.96 per share and 100% of these shares will vest if there is a change of control transaction.

In December 2009, we entered into an amendment to Dr. Hausman's offer letter. Pursuant to the terms of the amendment, Dr. Hausman will receive the following benefits if we undergo a change of control transaction (as defined in the share option plan), in addition to the stock option vesting acceleration described above:

- lump sum payment of one year's base salary, less required withholding; and
- lump sum payment of one year's equivalent of performance review bonus at target, less required withholding.

Additionally, if Dr. Hausman is terminated without cause (as defined in the July 2009 offer letter), she will receive the following benefits:

- lump sum payment of six month's base salary, less required withholding; and
- lump sum payment of six month's equivalent of performance review bonus at target, less required withholding.

Scott Peterson

We are parties to an offer letter dated June 4, 2009 with Scott Peterson, Ph.D., our vice president of research and development. In consideration for his services, Dr. Peterson was initially entitled to receive a base salary of \$175,000 per year, subject to increases as may be approved by the compensation committee. In December 2009, Dr. Peterson's base salary was increased to \$180,250 for 2010. Dr. Peterson is also entitled to receive a performance bonus of up to 25% of his base salary based on his achievement of predetermined objectives and on December 3, 2009, Dr. Peterson received a performance bonus of \$18,229.

In accordance with the offer letter of June 4, 2009, Dr. Peterson was granted an option to purchase 25,000 shares of our common stock at a price of \$6.56 per share and 100% of these shares will vest if there is a change of control transaction.

In December 2009, we entered into an amendment to Dr. Peterson's offer letter. Pursuant to the terms of the amendment, Dr. Peterson will receive the following benefits if we undergo a change of control transaction (as defined in the share option plan), in addition to the stock option vesting acceleration described above:

- lump sum payment of one year's base salary, less required withholding; and
- lump sum payment of one year's equivalent of performance review bonus at target, less required withholding.

Potential Payments Upon Termination or Change in Control

The tables below describe the payments and benefits our named executive officers would be entitled to receive assuming the occurrence on December 31, 2009 of either a change of control transaction or termination of their employment without “cause” (as defined below). For additional details regarding the payments and benefits our named executive officers are entitled to, please see “— Employment Agreements and Offer Letters” above.

Robert L. Kirkman

Name	Change of Control			Termination Other Than for Cause(3)		
	Equity Acceleration(1)	Salary(2)	Insurance Benefits	Equity Acceleration(4)	Salary(5)	Insurance Benefits
Robert L. Kirkman	\$631,150	\$1,125,000	\$—	\$—	\$562,500	\$—

- (1) The amount shown in this column is calculated as the spread value of all unvested stock options held by Dr. Kirkman on December 31, 2009, assuming a stock price of \$5.39 per share, the last reported sale price of our common stock on The NASDAQ Global Market on December 31, 2009.
- (2) The amount shown in this column is a lump sum payment equal to two times Dr. Kirkman’s base salary for 2009 plus two year’s equivalent of his performance review bonus at target. Such payments will be made within 60 days following a change of control, provided that, within 45 days of a change of control, Dr. Kirkman signs a separation agreement in a form reasonably satisfactory to us, which shall include a general release of all claims against us.
- (3) For purposes of Dr. Kirkman’s offer letter, “cause” includes, among other things (i) willful engaging in illegal conduct or gross misconduct which is injurious to us, (ii) being convicted of, or entering a plea of *nolo contendere* or guilty to, a felony or a crime of moral turpitude, (iii) engaging in fraud, misappropriation, embezzlement or any other act or acts of dishonesty resulting or intended to result directly or indirectly in a gain or personal enrichment of him at our expense, (iv) material breach of any of our written policies, or (v) willful and continual failure substantially to perform his duties, which failure has continued for a period of at least 30 days after written notice by us.
- (4) Pursuant to the terms of our share option plan, there is no acceleration of vesting if Dr. Kirkman is terminated without cause.
- (5) The amount shown in this column is a lump sum payment equal to Dr. Kirkman’s base salary for 2009 plus one year’s equivalent of his performance review bonus at target. Such payments will be made within 60 days following termination other than for cause, subject to any payment delay in order to comply with Section 409A of the Internal Revenue Code.

Shashi Karan

Name	Change of Control		
	Equity Acceleration(1)	Salary(2)	Insurance Benefits
Shashi Karan	\$80,875	\$198,000	\$—

- (1) The amount shown in this column is calculated as the spread value of all unvested stock options held by Mr. Karan on December 31, 2009, assuming a stock price of \$5.39 per share, the last reported sale price of our common stock on The NASDAQ Global Market on December 31, 2009.
- (2) The amount shown in this column is a lump sum payment equal to Mr. Karan’s base salary for 2009 plus one year’s equivalent of his performance review bonus at target. Such payments will be made within 60 days following a change of control, provided that, within 45 days of a change of control, Mr. Karan signs a separation agreement in a form reasonably satisfactory to us, which shall include a general release of all claims against us.

Gary Christianson

<u>Name</u>	<u>Change of Control</u>			<u>Termination Other Than for Cause(3)</u>		
	<u>Equity Acceleration(1)</u>	<u>Salary(2)</u>	<u>Insurance Benefits</u>	<u>Equity Acceleration(4)</u>	<u>Salary(5)</u>	<u>Insurance Benefits</u>
Gary Christianson	\$218,750	\$337,500	\$—	\$—	\$253,125	8,085

- (1) The amount shown in this column is calculated as the spread value of all unvested stock options held by Mr. Christianson on December 31, 2009, assuming a stock price of \$5.39 per share, the last reported sale price of our common stock on The NASDAQ Global Market on December 31, 2009.
- (2) The amount shown in this column is a lump sum payment equal to Mr. Christianson’s base salary for 2009 plus one year’s equivalent of his performance review bonus at target. Such payments will be made within 60 days following a change of control, provided that, within 45 days of a change of control, Mr. Christianson signs a separation agreement in a form reasonably satisfactory to us, which shall include a general release of all claims against us.
- (3) For purposes of Mr. Christianson’s offer letter, “cause” includes, among other things (i) willful engaging in illegal conduct or gross misconduct which is injurious to us, (ii) being convicted of, or entering a plea of *nolo contendere* or guilty to, a felony or a crime of moral turpitude, (iii) engaging in fraud, misappropriation, embezzlement or any other act or acts of dishonesty resulting or intended to result directly or indirectly in a gain or personal enrichment of him at our expense, (iv) material breach of any of our written policies, or (v) willful and continual failure substantially to perform his duties, which failure has continued for a period of at least 30 days after written notice by us.
- (4) Pursuant to the terms of our share option plan, there is no acceleration of vesting if Mr. Christianson is terminated without cause.
- (5) The amount shown in this column is a lump sum payment equal to nine months of Mr. Christianson’s base salary for 2009 plus nine month’s equivalent of his performance review bonus at target. If Mr. Christianson is a “specified employee” within the meaning of Section 409A of the Internal Revenue Code and any final regulations and official guidance promulgated thereunder, at the time of his separation from service, then, if required, the amounts shown in this column, which are otherwise due on or within the six-month period following the separation from service will accrue, to the extent required, during such six-month period and will become payable in a lump sum payment six months and one day following the date of separation from service.

Diana Hausman

<u>Name</u>	<u>Change of Control</u>			<u>Termination Other Than for Cause(3)</u>		
	<u>Equity Acceleration(1)</u>	<u>Salary(2)</u>	<u>Insurance Benefits</u>	<u>Equity Acceleration(4)</u>	<u>Salary(5)</u>	<u>Insurance Benefits</u>
Diana Hausman	\$46,900	\$377,000	\$—	\$—	\$188,500	\$—

- (1) The amount shown in this column is calculated as the spread value of all unvested stock options held by Dr. Hausman on December 31, 2009, assuming a stock price of \$5.39 per share, the last reported sale price of our common stock on The NASDAQ Global Market on December 31, 2009.
- (2) The amount shown in this column is a lump sum payment equal to Dr. Hausman’s base salary for 2009 plus one year’s equivalent of her performance review bonus at target. Such payments will be made within 60 days following a change of control, provided that, within 45 days of a change of control, Dr. Hausman signs a separation agreement in a form reasonably satisfactory to us, which shall include a general release of all claims against us.
- (3) For purposes of Dr. Hausman’s offer letter, “cause” includes, among other things (i) willful engaging in illegal conduct or gross misconduct which is injurious to us, (ii) being convicted of, or entering a plea of *nolo contendere* or guilty to, a felony or a crime of moral turpitude, (iii) engaging in fraud, misappropriation, embezzlement or any other act or acts of dishonesty resulting or intended to result directly or indirectly in a gain or personal enrichment of him at our expense, (iv) material breach of any of our written

Table of Contents

policies, or (v) willful and continual failure substantially to perform his duties, which failure has continued for a period of at least 30 days after written notice by us.

- (4) Pursuant to the terms of our share option plan, there is no acceleration of vesting if Dr. Hausman is terminated without cause.
- (5) The amount shown in this column is a lump sum payment equal to six months of Dr. Hausman's base salary for 2009 plus six month's equivalent of her performance review bonus at target.

Scott Peterson

<u>Name</u>	<u>Change of Control</u>		
	<u>Equity Acceleration(1)</u>	<u>Salary(2)</u>	<u>Insurance Benefits</u>
Scott Peterson	\$34,000	\$218,750	\$—

- (1) The amount shown in this column is calculated as the spread value of all unvested stock options held by Dr. Peterson on December 31, 2009, assuming a stock price of \$5.39 per share, the last reported sale price of our common stock on The NASDAQ Global Market on December 31, 2009.
- (2) The amount shown in this column is a lump sum payment equal to Dr. Peterson's base salary for 2009 plus one year's equivalent of his performance review bonus at target. Such payments will be made within 60 days following a change of control, provided that, within 45 days of a change of control, Dr. Peterson signs a separation agreement in a form reasonably satisfactory to us, which shall include a general release of all claims against us.

Share Option Plan

Our board of directors adopted our share option plan on December 9, 1992 and our stockholders approved it on May 26, 1993. Our share option plan was amended and restated as of May 3, 2007, April 3, 2008 and October 22, 2009. Unless further amended by our stockholders, our share option plan will terminate on May 3, 2017. Our share option plan provides for the grant of nonstatutory stock options to selected employees, directors and persons or companies engaged to provide ongoing management or consulting services for us, or any entity controlled by us. The employees, directors and consultants who have been selected to participate in our share option plan are referred to below as "participants."

Share Reserve

The total number of shares of common stock issuable pursuant to options granted under our share option plan shall, at any time, be 10% of our issued and outstanding shares of common stock. We had reserved a total of 2,575,341 shares of our common stock for issuance pursuant to our share option plan as of December 31, 2009. As of December 31, 2009, options to purchase 1,836,657 shares of our common stock were outstanding and 738,684 shares of our common stock were available for future grant under our share option plan.

Administration

The compensation committee of our board of directors administers our share option plan. Under our share option plan, the plan administrator has the power, subject to certain enumerated restrictions in our share option plan, to determine the terms of the awards, including the employees, directors and consultants who will receive awards, the exercise price of the award, the number of shares subject to each award, the vesting schedule and exercisability of each award and the form of consideration payable upon exercise.

In addition, the compensation committee has delegated to the new employee option committee the authority to approve grants of stock options to newly hired employees who are not our chief executive officer, president, chief financial officer (or principal financial officer, if no person holds the office of chief financial officer), vice president or a Section 16 officer (as determined pursuant to the rules promulgated under the Securities Exchange Act of 1934). The new employee option committee is composed of our chief executive officer, our principal financial officer and our head of human resources. The new employee option committee

meets during the last full week of each month and may only grant stock option awards. The stock options granted by the new employee option committee must have an exercise price equal to the closing sales price of our common stock as reported by The NASDAQ Global Market on the last trading day of the month in which such grants were approved. These grants must fall within a predetermined range approved by the compensation committee and may not deviate from the standard vesting terms (i.e., awards vest over a four year period, with 25% of the shares subject to an award vesting on the first anniversary of the optionee's commencement of employment and the balance vesting in equal monthly increments for 36 months following the first anniversary of the commencement of employment).

Share Options

The exercise price of the shares subject to options granted under our share option plan shall be determined by our compensation committee or board of directors, but shall not be less than the fair market value of the shares. Generally, the exercise price will be the closing price of our common stock on the day of the option grant. Until April 3, 2008, for purposes of our share option plan, the fair market value meant the closing price of our common stock as reported by the Toronto Stock Exchange on the day preceding the day on which the option is granted. If no trade of shares of our common stock was reported on the Toronto Stock Exchange that day, then the fair market value was not less than the mean of the bid and ask quotations for our common stock on the Toronto Stock Exchange at the close of business on such preceding day. On April 3, 2008, our board of directors amended our option plan to provide that options granted pursuant to the plan be priced at the closing price of our shares of common stock on The NASDAQ Global Market on the day of the option grant. If the grant date would otherwise occur during a closed quarterly trading window under our insider trading policy, the compensation committee or board of directors will identify a future date as the grant date (which typically will be the first day the trading window opens after a closed quarterly trading window). Effective October 22, 2009, in connection with our voluntary delisting from the Toronto Stock Exchange, the share option plan was amended and restated to remove references to the Toronto Stock Exchange and to make certain other housekeeping changes necessitated by the voluntary delisting.

Termination of Service Provider Relationship

Upon the termination without cause of a participant's employment or service with us (or any of our subsidiaries), other than a termination due to death or retirement (as such terms are defined in our share option plan), the participant's option will continue to vest and may be exercised at any time up to and including, but not after, the date which is 180 days after the date of the termination or the date prior to the close of the business on the expiry date of the option, whichever is the earlier. If termination is for cause, the option will immediately terminate in its entirety. An option may never be exercised after the expiration of its term.

For our president or any of our vice presidents, in the event of a termination of the participant's service or employment with us (or any of our subsidiaries) without cause, any option granted to the participant will continue to vest and may be exercised at any time up to and including, but not after, the date which is the second anniversary of the date of his or her termination or the date before the close of business on the expiry date of his or her option, whichever is the earlier.

In the event of the retirement, as such term is defined in our share option plan, of the participant while in the employment of us (or any of our subsidiaries), any option granted to the participant will continue to vest and may be exercised by the participant in accordance with the terms of the option at any time up to and including, but not after, the expiry date of the option.

In the event of the death of the participant while in the employment or service of us (or any of our subsidiaries), the option will continue to vest and may be exercised by a legal representative of the participant at any time up to and including, but not after, the date which is 180 days after the date of the death of the optionee or before the close of business on the expiry date of the option, whichever is earlier.

Effect of a Change in Control

Our share option plan provides that, if a change in control occurs, as such term is defined in our share option plan, including our merger with or into another corporation or the sale of all or substantially all of our assets, or if there is an offer to purchase, a solicitation of an offer to sell, or an acceptance of an offer to sell our shares of common stock made to all or substantially all of the holders of shares of common stock, a participant, who at the time of the change of control is an employee, director or service provider, shall have the right to immediately exercise his or her option as to all shares of common stock subject to such option, including as to those shares of common stock with respect to which such option cannot be exercised immediately prior to the occurrence of the change of control, and the participant shall have 90 days from the date of the change of control to exercise his or her option (unless the option expires prior to such date).

Transferability

Unless otherwise determined by the plan administrator, our share option plan generally does not allow for the sale or transfer of awards under our share option plan other than by will or the laws of descent and distribution, and may be exercised only during the lifetime of the participant and only by that participant.

Additional Provisions

Our board of directors has the authority to amend (subject to stockholder approval in some circumstances) or discontinue our share option plan, so long as that action does not materially and adversely affect any option rights granted to a participant without the written consent of that participant.

During the period January 1 to December 31, 2009, options to purchase 783,000 shares of common stock were granted under our share option plan at a weighted average exercise price of \$3.97 per share.

Restricted Share Unit Plan

Our board of directors adopted our restricted share unit plan on May 18, 2005 and our stockholders approved it on May 18, 2005. Our restricted share unit plan was amended and restated as of June 12, 2009 to add additional shares to the plan and again as of October 22, 2009 to remove references to the Toronto Stock Exchange and make certain other housekeeping changes necessitated by our voluntary delisting from the TSX. Our restricted share unit plan provides for the grant of restricted share units to non-employee members of our board of directors. The directors who receive restricted share units under our restricted share unit plan are referred to below as participants.

Share Reserve

We have reserved a total of 466,666 of our shares of common stock for issuance pursuant to our restricted share unit plan. As of December 31, 2009, grants covering 186,266 shares of our common stock were outstanding, 260,771 shares of our common stock were available for future grant under our restricted share unit plan and 19,629 shares had been issued upon conversion of RSUs.

Administration

The corporate governance and nominating committee of our board of directors administers our restricted share unit plan. Under our restricted share unit plan, the plan administrator has the power, subject to certain enumerated restrictions in our restricted share unit plan, to determine the terms of the grants, including the directors who will receive grants, the grant period (as such term is defined in our restricted share unit plan) of any awards, and any applicable vesting terms in order for the restricted share units to be issued, and such other terms and conditions as the board of directors deems appropriate.

Each grant of restricted share units will be evidenced by a written notice, which we call the notice of grant, with such notice, in connection with our restricted share unit plan, governing the terms and conditions of the grant. Each notice of grant will state the number of restricted share units granted to the participant and state that each restricted share unit, subject to and in accordance with the terms of our restricted share unit

plan, will entitle the participant to receive one share of our common stock in settlement of a restricted share unit granted pursuant to our restricted share unit plan.

Right to Restricted Share Units in the event of Death, Retirement, or Resignation

In the event of the death of a participant while a director of us, and with respect to each grant of restricted share units for which the grant period has not ended and for which the restricted share units have not been otherwise issued prior to the date of death, all unvested restricted share units will immediately vest and the shares of our common stock subject to such restricted share units will be issued by the later of the end of the calendar year of the date of death, or by the 15th day of the third calendar month following the participant's date of death.

In the event the participant's service as a director terminates for any reason other than death, and provided such participant is not a specified employee (as such term is defined in our restricted share unit plan) on the date of his or termination, with respect to the restricted share units as to which the release date (as such term is defined in our restricted share unit plan) has not occurred, and for which shares of our common stock have not been issued, the participant will receive such shares as if the grant period had ended and such shares will be issued by the later of the end of the calendar year of the date of termination or by the 15th day of the third calendar month following the date of the termination. If the participant is a specified employee on the date of his or her termination, and if such termination is for any reason other than death, with respect to the restricted share units as to which the release date has not occurred, and for which shares of our common stock have not been issued, the participant will receive such shares as if the grant period had ended and such shares will be delivered by the 30th day of the date following the date which is six months following the participant's date of termination.

Effect of a Change in Control

In the event of a change in control (as such term is defined in our restricted share unit plan), with respect to all grants of restricted share units that are outstanding as of the date of such change in control, all unvested restricted share units will immediately vest and each participant who has received any such grants will be entitled to receive, on the date that is ten business days following the change in control date, an amount in full settlement of each restricted share unit covered by the grant. Such amount will be either one share of our common stock for each restricted share unit, or if so specified in a written election by the participant, a cash payment equal to the special value (as such term is defined in our restricted share unit plan) for each covered restricted share unit.

Transferability

The rights or interests of a participant under our restricted share unit plan will not be assignable or transferable, other than by will or the laws governing the devolution of property in the event of death and such rights or interests will not be encumbered.

Additional Provisions

Our board of directors has the authority to amend (subject to stockholder approval in some circumstances), suspend or terminate our restricted share unit plan in whole or in part from time to time.

Risk Analysis of Compensation Plans

The mix and design of the elements of executive compensation do not encourage management to assume excessive risks. Any risks arising from our compensation policies and practices for our employees are not reasonably likely to have a material adverse effect on the company.

The compensation committee extensively reviewed the elements of executive compensation to determine whether any portion of executive compensation encouraged excessive risk taking and concluded:

- significant weighting towards long-term incentive compensation discourages short-term risk taking; and
- goals are appropriately set to avoid targets that, if not achieved, result in a large percentage loss of compensation.

CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

In addition to the arrangements described below, we have also entered into the arrangements which are described where required under the heading titled “Executive Compensation — Employment Agreements and Offer Letters” and “Executive Compensation — Potential Payments Upon Termination or Change in Control” above.

Approval of Related Party Transactions

We have adopted a formal, written policy that our executive officers, directors (including director nominees), holders of more than 5% of any class of our voting securities, or any member of the immediate family of or any entities affiliated with any of the foregoing persons, are not permitted to enter into a related party transaction with us without the prior approval or, in the case of pending or ongoing related party transactions, ratification of our audit committee. For purposes of our policy, a related party transaction is a transaction, arrangement or relationship where the company was, is or will be involved and in which a related party had, has or will have a direct or indirect material interest. Certain transactions with related parties, however, are excluded from the definition of a related party transaction including, but not limited to (i) transactions involving the purchase or sale of products or services in the ordinary course of business, not exceeding \$20,000, (ii) transactions where a related party’s interest derives solely from his or her service as a director of another entity that is a party to the transaction, (iii) transactions where a related party’s interest derives solely from his or her ownership of less than 10% of the equity interest in another entity that is a party to the transaction, and (iv) transactions where a related party’s interest derives solely from his or her ownership of a class of our equity securities and all holders of that class received the same benefit on a pro rata basis. No member of the audit committee may participate in any review, consideration or approval of any related party transaction where such member or any of his or her immediate family members is the related party. In approving or rejecting the proposed agreement, our audit committee shall consider the relevant facts and circumstances available and deemed relevant to the audit committee, including, but not limited to (i) the benefits and perceived benefits to the company, (ii) the materiality and character of the related party’s direct and indirect interest, (iii) the availability of other sources for comparable products or services, (iv) the terms of the transaction, and (v) the terms available to unrelated third parties under the same or similar circumstances. In reviewing proposed related party transactions, the audit committee will only approve or ratify related party transactions that are in, or not inconsistent with, the best interests of the company and our stockholders. We have determined that there were no new related party transactions to disclose in 2009.

Indebtedness of Directors and Officers

None of our or any of our subsidiaries’ current or former directors or executive officers is indebted to us or any of our subsidiaries, nor are any of these individuals indebted to another entity which indebtedness is the subject of a guarantee, support agreement, letter of credit or other similar arrangement or understanding provided by us, or any of our subsidiaries. One non-executive employee is indebted to us for approximately \$127,000 (excluding accrued and unpaid interest).

None of our directors, executive officers, or associates of any of them, is, or, at any time since the beginning of the most recently completed financial year has been, indebted to us or any of our subsidiaries, to another entity which indebtedness is the subject of a guarantee, support agreement, letter of credit or other similar arrangement or understanding provided by us or any of our subsidiaries, or pursuant to any stock purchase program or any other program.

SECTION 16(a) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE

Section 16(a) of the Exchange Act requires our directors and executive officers, and persons who own more than ten percent of a registered class of our equity securities, to file reports of ownership of, and transactions in, our securities with the Securities and Exchange Commission and NASDAQ. Such directors, executive officers, and ten-percent stockholders are also required to furnish us with copies of all Section 16(a) forms that they file.

Based solely on a review of the copies of such forms received by us, or written representations from certain reporting persons, we believe that during 2009, our directors, executive officers, and ten-percent stockholders complied with all Section 16(a) filing requirements applicable to them.

ANNUAL REPORT

A copy of our combined Annual Report to stockholders and Annual Report on Form 10-K for the year ended December 31, 2009 will be mailed to the stockholders of record as of April 22, 2010 together with the mailing of this proxy statement. An additional copy may be obtained from our website, www.oncothyreon.com, or will be furnished, without charge, to beneficial stockholders or stockholders of record upon request in writing to Shashi Karan, Corporate Secretary, Oncothyreon Inc., 2601 Fourth Avenue, Suite 500, Seattle, Washington 98121 or by telephone to (206) 801-2100. Copies of exhibits to the Annual Report on Form 10-K are available for a nominal fee.

OTHER MATTERS

We know of no other matters to be submitted for consideration by the stockholders at the annual meeting. If any other matters properly come before the annual meeting, it is the intention of the persons named in the enclosed proxy card to vote the shares they represent as the board of directors may recommend.

It is important that your shares be represented at the meeting, regardless of the number of shares which you hold. You are therefore urged to execute and return, at your earliest convenience, the accompanying proxy card in the postage-prepaid envelope enclosed. You may also submit your proxy over the Internet or by telephone. For specific instructions, please refer to the information provided with your proxy card.

By Order of the Board of Directors,



Shashi Karan
Corporate Controller and Corporate Secretary

Seattle, Washington
May 13, 2010

ONCOTHYREON INC.

2010 EMPLOYEE STOCK PURCHASE PLAN

1. *Purpose*. The purpose of the Plan is to provide employees of the Company and its Designated Subsidiaries with an opportunity to purchase Common Stock through accumulated Contributions (as defined in Section 2(j) below). The Company's intention is to have the Plan qualify as an "employee stock purchase plan" under Section 423 of the Code. The provisions of the Plan, accordingly, will be construed so as to extend and limit Plan participation in a uniform and nondiscriminatory basis consistent with the requirements of Section 423 of the Code.

2. *Definitions*.

(a) "*Administrator*" means the Board or any Committee designated by the Board to administer the Plan pursuant to Section 14.

(b) "*Applicable Laws*" means the requirements relating to the administration of equity-based awards under U.S. state corporate laws, U.S. federal and state securities laws, the Code, any stock exchange or quotation system on which the Common Stock is listed or quoted and the applicable laws of any foreign country or jurisdiction where options are, or will be, granted under the Plan.

(c) "*Board*" means the Board of Directors of the Company.

(d) "*Change in Control*" means the occurrence of any of the following events:

(i) *Change in Ownership of the Company*. A change in the ownership of the Company which occurs on the date that any one person, or more than one person acting as a group ("*Person*"), acquires ownership of the stock of the Company that, together with the stock held by such Person, constitutes more than fifty percent (50%) of the total voting power of the stock of the Company. For purposes of this clause (i), if any Person is considered to own more than fifty percent (50%) of the total voting power of the stock of the Company, the acquisition of additional stock by the same Person will not be considered a Change in Control; or

(ii) *Change in Effective Control of the Company*. If the Company has a class of securities registered pursuant to Section 12 of the Exchange Act, a change in the effective control of the Company which occurs on the date that a majority of members of the Board is replaced during any twelve (12)-month period by Directors whose appointment or election is not endorsed by a majority of the members of the Board prior to the date of the appointment or election. For purposes of this clause (ii), if any Person is considered to be in effective control of the Company, the acquisition of additional control of the Company by the same Person will not be considered a Change in Control; or

(iii) *Change in Ownership of a Substantial Portion of the Company's Assets*. A change in the ownership of a substantial portion of the Company's assets which occurs on the date that any Person acquires (or has acquired during the twelve (12)-month period ending on the date of the most recent acquisition by such person or persons) assets from the Company that have a total gross fair market value equal to or more than fifty percent (50%) of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions. For purposes of this subsection (iii), gross fair market value means the value of the assets of the Company, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets.

For purposes of this Section 2(d), persons will be considered to be acting as a group if they are owners of a corporation that enters into a merger, consolidation, purchase or acquisition of stock, or similar business transaction with the Company.

Notwithstanding the foregoing, a transaction will not be deemed a Change in Control unless the transaction qualifies as a change in control event within the meaning of Code Section 409A, as it has been and

Table of Contents

may be amended from time to time, and any proposed or final Treasury Regulations and Internal Revenue Service guidance that has been promulgated or may be promulgated thereunder from time to time.

Further and for the avoidance of doubt, a transaction will not constitute a Change in Control if: (i) its sole purpose is to change the state of the Company's incorporation, or (ii) its sole purpose is to create a holding company that will be owned in substantially the same proportions by the persons who held the Company's securities immediately before such transaction.

(e) "Code" means the U.S. Internal Revenue Code of 1986, as amended. Reference to a specific section of the Code or Treasury Regulation thereunder will include such section or regulation, any valid regulation or other official applicable guidance promulgated under such section, and any comparable provision of any future legislation or regulation amending, supplementing or superseding such section or regulation.

(f) "Committee" means a committee of the Board appointed in accordance with Section 14 hereof.

(g) "Common Stock" means the common stock of the Company.

(h) "Company" means Oncothyreon Inc., a Delaware corporation, or any successor thereto.

(i) "Compensation" means (i) the regular base salary paid to a Participant by the Company and/or Employer plus (ii) all overtime payments, bonuses, commissions, profit-sharing distributions or other incentive-type payments received during such period. Such Compensation will be calculated before deduction of (A) any income or employment tax withholdings or (B) any contributions made by the Participant to any Code Section 401(k) salary deferral plan or any Code Section 125 cafeteria benefit program now or hereafter established by the Company or Employer. However, Compensation will not include any contributions made by the Company or any Employer on the Participant's behalf to any employee benefit or welfare plan now or hereafter established (other than Code Section 401(k) or Code Section 125 contributions deducted from such calculation of Compensation).

(j) "Contributions" means the payroll deductions and other additional payments that the Company may permit to be made by a Participant to fund the exercise of options granted pursuant to the Plan.

(k) "Designated Subsidiary" means any Subsidiary that has been designated by the Administrator from time to time in its sole discretion as eligible to participate in the Plan.

(l) "Director" means a member of the Board.

(m) "Eligible Employee" means any individual who is a common law employee of the Company or a Designated Subsidiary and is customarily employed for at least twenty (20) hours per week and more than five (5) months in any calendar year by the Employer, or any lesser number of hours per week and/or number of months in any calendar year established by the Administrator (if required under applicable local law) for purposes of any separate Offering. For purposes of the Plan, the employment relationship will be treated as continuing intact while the individual is on sick leave or other leave of absence that the Employer approves. Where the period of leave exceeds three (3) months and the individual's right to reemployment is not guaranteed either by statute or by contract, the employment relationship will be deemed to have terminated three (3) months and one (1) day following the commencement of such leave. The Administrator, in its discretion, from time to time may, prior to an Enrollment Date for all options to be granted on such Enrollment Date, determine (on a uniform and nondiscriminatory basis) that the definition of Eligible Employee will or will not include an individual if he or she: (i) has not completed at least two (2) years of service since his or her last hire date (or such lesser period of time as may be determined by the Administrator in its discretion), (ii) customarily works not more than twenty (20) hours per week (or such lesser period of time as may be determined by the Administrator in its discretion), (iii) customarily works not more than five (5) months per calendar year (or such lesser period of time as may be determined by the Administrator in its discretion), (iv) is a highly compensated employee within the meaning of Section 414(q) of the Code with compensation above a certain level or is an officer or subject to the disclosure requirements of Section 16(a) of the Exchange Act, provided the exclusion is applied with respect to each Offering in an identical manner to all highly compensated individuals of the Employer whose Employees are participating in that Offering.

Table of Contents

- (n) “ Employer ” means the employer of the applicable Eligible Employee(s).
- (o) “ Enrollment Date ” means the first Trading Day of each Offering Period.
- (p) “ Exchange Act ” means the Securities Exchange Act of 1934, as amended, including the rules and regulations promulgated thereunder.
- (q) “ Exercise Date ” means the last Trading Day of each Purchase Period.
- (r) “ Fair Market Value ” means, as of any date and unless the Administrator determines otherwise, the value of Common Stock determined as follows:
 - (i) If the Common Stock is listed on any established stock exchange or a national market system, including without limitation the NASDAQ Global Select Market, the NASDAQ Global Market or the NASDAQ Capital Market of The NASDAQ Stock Market, its Fair Market Value will be the closing sales price for such stock as quoted on such exchange or system on the date of determination (or on the last preceding Trading Day for which such quotation exists if the date of determination is not a Trading Day), as reported in *The Wall Street Journal* or such other source as the Administrator deems reliable;
 - (ii) If the Common Stock is regularly quoted by a recognized securities dealer but selling prices are not reported, its Fair Market Value will be the mean between the high bid and low asked prices for the Common Stock on the date of determination (or on the last preceding Trading Day if the date of determination is not a Trading Day), as reported in *The Wall Street Journal* or such other source as the Administrator deems reliable; or
 - (iii) In the absence of an established market for the Common Stock, the Fair Market Value thereof will be determined in good faith by the Administrator.
- (s) “ New Exercise Date ” means a new Exercise Date if the Administrator shortens any Offering Period then in progress.
- (t) “ Offering ” means an offer under the Plan of an option that may be exercised during an Offering Period as further described in Section 4. For purposes of this Plan, the Administrator may designate separate Offerings under the Plan (the terms of which need not be identical) in which Employees of one or more Employers will participate, even if the dates of the applicable Offering Periods of each such Offering are identical.
- (u) “ Offering Periods ” means the periods of approximately eighteen (18) months during which an option granted pursuant to the Plan may be exercised, commencing on the first Trading Day on or after February 1 and August 1 of each year and terminating on the last Trading Day in the periods ending eighteen (18) months later. The duration and timing of Offering Periods may be changed pursuant to Sections 4 and 20.
- (v) “ Parent ” means a “parent corporation,” whether now or hereafter existing, as defined in Section 424(e) of the Code.
- (w) “ Participant ” means an Eligible Employee that participates in the Plan.
- (x) “ Plan ” means this Oncothyreon Inc. 2010 Employee Stock Purchase Plan.
- (y) “ Purchase Period ” means the approximately six (6) month period commencing after one Exercise Date and ending with the next Exercise Date, except that the first Purchase Period of any Offering Period will commence on the Enrollment Date and end with the next Exercise Date.
- (z) “ Purchase Price ” means an amount equal to eighty-five percent (85%) of the Fair Market Value of a share of Common Stock on the Enrollment Date or on the Exercise Date, whichever is lower; provided however, that the Purchase Price may be determined for subsequent Offering Periods by the Administrator subject to compliance with Section 423 of the Code (or any successor rule or provision or any other applicable law, regulation or stock exchange rule) or pursuant to Section 20.
- (aa) “ Subsidiary ” means a “subsidiary corporation,” whether now or hereafter existing, as defined in Section 424(f) of the Code.

(bb) “ *Trading Day* ” means a day on which the national stock exchange upon which the Common Stock is listed is open for trading.

3. *Eligibility*.

(a) *Offering Periods*. Any Eligible Employee on a given Enrollment Date will be eligible to participate in the Plan, subject to the requirements of Section 5. Employees who are citizens or residents of a non-U.S. jurisdiction may be excluded from participation in the Plan or an Offering if the participation of such Employees is prohibited under the laws of the applicable jurisdiction or if complying with the laws of the applicable jurisdiction would cause the Plan or an Offering to violate Section 423 of the Code.

(b) *Limitations*. Any provisions of the Plan to the contrary notwithstanding, no Eligible Employee will be granted an option under the Plan (i) to the extent that, immediately after the grant, such Eligible Employee (or any other person whose stock would be attributed to such Eligible Employee pursuant to Section 424(d) of the Code) would own capital stock of the Company or any Parent or Subsidiary of the Company and/or hold outstanding options to purchase such stock possessing five percent (5%) or more of the total combined voting power or value of all classes of the capital stock of the Company or of any Parent or Subsidiary of the Company, or (ii) to the extent that his or her rights to purchase stock under all employee stock purchase plans (as defined in Section 423 of the Code) of the Company or any Parent or Subsidiary of the Company accrues at a rate, which exceeds twenty-five thousand dollars (\$25,000) worth of stock (determined at the Fair Market Value of the stock at the time such option is granted) for each calendar year in which such option is outstanding at any time, as determined in accordance with Section 423 of the Code and the regulations thereunder.

4. *Offering Periods*. The Plan will be implemented by consecutive and overlapping Offering Periods with a new Offering Period commencing on the first Trading Day on or after February 1 and August 1 each year, or on such other date as the Administrator will determine. The Administrator will have the power to change the duration of Purchase Periods and/or Offering Periods (including the commencement dates thereof) with respect to future Offerings without stockholder approval if such change is announced prior to the scheduled beginning of the first Purchase Period and/or Offering Period to be affected thereafter.

5. *Participation*. An Eligible Employee may participate in the Plan by (i) submitting to the Company’s stock administration office (or its designee), on or before a date determined by the Administrator prior to an applicable Enrollment Date, a properly completed subscription agreement authorizing Contributions in the form provided by the Administrator for such purpose, or (ii) following an electronic or other enrollment procedure determined by the Administrator.

6. *Contributions*.

(a) At the time a Participant enrolls in the Plan pursuant to Section 5, he or she will elect to have payroll deductions made on each pay day or other Contributions (to the extent permitted by the Administrator) made during the Offering Period in an amount not exceeding fifteen percent (15%) of the Compensation, which he or she receives on each pay day during the Offering Period; provided, however, that should a pay day occur on an Exercise Date, a Participant will have any payroll deductions made on such day applied to his or her account under the subsequent Purchase Period or Offering Period. The Administrator, in its sole discretion, may permit all Participants in a specified Offering to contribute amounts to the Plan through payment by cash, check or other means set forth in the subscription agreement prior to each Exercise Date of each Purchase Period, provided that payment through means other than payroll deductions shall be permitted only if the Participant has not already had the maximum permitted amount withheld through payroll deductions during the Offering Period. A Participant’s subscription agreement will remain in effect for successive Offering Periods unless terminated as provided in Section 10 hereof.

(b) Payroll deductions for a Participant will commence on the first pay day following the Enrollment Date and will end on the last pay day prior to the Exercise Date of such Offering Period to which such authorization is applicable, unless sooner terminated by the Participant as provided in Section 10 hereof.

(c) All Contributions made for a Participant will be credited to his or her account under the Plan and payroll deductions will be made in whole percentages only. A Participant may not make any additional payments into such account.

(d) A Participant may discontinue his or her participation in the Plan as provided in Section 10, or may increase or decrease the rate of his or her Contributions during the Offering Period by (i) properly completing and submitting to the Company's stock administration office (or its designee), on or before a date determined by the Administrator prior to an applicable Exercise Date, a new subscription agreement authorizing the change in Contribution rate in the form provided by the Administrator for such purpose, or (ii) following an electronic or other procedure prescribed by the Administrator; provided, however, that a Participant may only make one Contribution change during each month of the Offering Period. If a Participant has not followed such procedures to change the rate of Contributions, the rate of his or her Contributions will continue at the originally elected rate throughout the Offering Period and future Offering Periods (unless terminated as provided in Section 10). The Administrator may, in its sole discretion, limit the nature and/or number of Contribution rate changes that may be made by Participants during any Purchase Period or Offering Period, and may establish such other conditions or limitations as it deems appropriate for Plan administration. Any change in payroll deduction rate made pursuant to this Section 6(d) will be effective as of the first full payroll period following five (5) business days after the date on which the change is made by the Participant (unless the Administrator, in its sole discretion, elects to process a given change in payroll deduction rate more quickly).

(e) Notwithstanding the foregoing, to the extent necessary to comply with Section 423(b)(8) of the Code and Section 3(b), a Participant's Contributions may be decreased to zero percent (0%) at any time during an Offering Period. Subject to Section 423(b)(8) of the Code and Section 3(b) hereof, Contributions will recommence at the rate originally elected by the Participant effective as of the beginning of the first Offering Period scheduled to end in the following calendar year, unless terminated by the Participant as provided in Section 10.

(f) Notwithstanding any provisions to the contrary in the Plan, the Administrator may allow Eligible Employees to participate in the Plan via cash contributions instead of payroll deductions if (i) payroll deductions are not permitted under applicable local law, and (ii) the Administrator determines that cash contributions are permissible under Section 423 of the Code.

(g) At the time the option is exercised, in whole or in part, or at the time some or all of the Common Stock issued under the Plan is disposed of (or any other time that a taxable event related to the Plan occurs), the Participant must make adequate provision for the Company's or Employer's federal, state, local or any other tax liability payable to any authority including taxes imposed by jurisdictions outside of the U.S., national insurance, social security or other tax withholding obligations, if any, which arise upon the exercise of the option or the disposition of the Common Stock (or any other time that a taxable event related to the Plan occurs). At any time, the Company or the Employer may, but will not be obligated to, withhold from the Participant's Compensation the amount necessary for the Company or the Employer to meet applicable withholding obligations, including any withholding required to make available to the Company or the Employer any tax deductions or benefits attributable to sale or early disposition of Common Stock by the Eligible Employee. In addition, the Company or the Employer may, but will not be obligated to, withhold from the proceeds of the sale of Common Stock or any other method of withholding the Company or the Employer deems appropriate to the extent permitted by U.S. Treasury

7. *Grant of Option.* On the Enrollment Date of each Offering Period, each Eligible Employee participating in such Offering Period will be granted an option to purchase on each Exercise Date during such Offering Period (at the applicable Purchase Price) up to a number of shares of Common Stock determined by dividing such Eligible Employee's Contributions accumulated prior to such Exercise Date and retained in the Eligible Employee's account as of the Exercise Date by the applicable Purchase Price; provided that in no event will an Eligible Employee be permitted to purchase during each Offering Period more than fifteen thousand (15,000) shares of the Company's Common Stock (subject to: (i) the limitations set forth in Section 3(b), (ii) the limitations set forth in Section 13 and (iii) any adjustment pursuant to Section 19). The

Eligible Employee may accept the grant of such option with respect to an Offering Period by electing to participate in the Plan in accordance with the requirements of Section 5. The Administrator may, for future Offering Periods, increase or decrease, in its absolute discretion, the maximum number of shares of Common Stock that an Eligible Employee may purchase during each Offering Period. Exercise of the option will occur as provided in Section 8, unless the Participant has withdrawn pursuant to Section 10. The option will expire on the last day of the Offering Period.

8. *Exercise of Option*.

(a) Unless a Participant withdraws from the Plan as provided in Section 10, his or her option for the purchase of shares of Common Stock will be exercised automatically on the Exercise Date, and the maximum number of full shares subject to the option will be purchased for such Participant at the applicable Purchase Price with the accumulated Contributions from his or her account. No fractional shares of Common Stock will be purchased; any Contributions accumulated in a Participant's account, which are not sufficient to purchase a full share will be retained in the Participant's account for the subsequent Purchase Period or Offering Period, subject to earlier withdrawal by the Participant as provided in Section 10. Any other funds left over in a Participant's account after the Exercise Date will be returned to the Participant. During a Participant's lifetime, a Participant's option to purchase shares hereunder is exercisable only by him or her.

(b) If the Administrator determines that, on a given Exercise Date, the number of shares of Common Stock with respect to which options are to be exercised may exceed (i) the number of shares of Common Stock that were available for sale under the Plan on the Enrollment Date of the applicable Offering Period, or (ii) the number of shares of Common Stock available for sale under the Plan on such Exercise Date, the Administrator may in its sole discretion (x) provide that the Company will make a pro rata allocation of the shares of Common Stock available for purchase on such Enrollment Date or Exercise Date, as applicable, in as uniform a manner as will be practicable and as it will determine in its sole discretion to be equitable among all Participants exercising options to purchase Common Stock on such Exercise Date, and continue all Offering Periods then in effect or (y) provide that the Company will make a pro rata allocation of the shares available for purchase on such Enrollment Date or Exercise Date, as applicable, in as uniform a manner as will be practicable and as it will determine in its sole discretion to be equitable among all participants exercising options to purchase Common Stock on such Exercise Date, and terminate any or all Offering Periods then in effect pursuant to Section 20. The Company may make a pro rata allocation of the shares available on the Enrollment Date of any applicable Offering Period pursuant to the preceding sentence, notwithstanding any authorization of additional shares for issuance under the Plan by the Company's stockholders subsequent to such Enrollment Date.

9. *Delivery*. As soon as reasonably practicable after each Exercise Date on which a purchase of shares of Common Stock occurs, the Company will arrange the delivery to each Participant the shares purchased upon exercise of his or her option in a form determined by the Administrator (in its sole discretion) and pursuant to rules established by the Administrator. The Company may permit or require that shares be deposited directly with a broker designated by the Company or to a designated agent of the Company, and the Company may utilize electronic or automated methods of share transfer. The Company may require that shares be retained with such broker or agent for a designated period of time and/or may establish other procedures to permit tracking of disqualifying dispositions of such shares. No Participant will have any voting, dividend, or other stockholder rights with respect to shares of Common Stock subject to any option granted under the Plan until such shares have been purchased and delivered to the Participant as provided in this Section 9.

10. *Withdrawal*.

(a) A Participant may withdraw all but not less than all the Contributions credited to his or her account and not yet used to exercise his or her option under the Plan at any time by (i) submitting to the Company's stock administration office (or its designee) a written notice of withdrawal in the form determined by the Administrator for such purpose, or (ii) following an electronic or other withdrawal procedure determined by the Administrator. All of the Participant's Contributions credited to his or her account will be paid to such Participant promptly after receipt of notice of withdrawal and such Participant's option for the Offering Period will be automatically terminated, and no further Contributions for the purchase of shares will be made for

such Offering Period. If a Participant withdraws from an Offering Period, Contributions will not resume at the beginning of the succeeding Offering Period, unless the Participant re-enrolls in the Plan in accordance with the provisions of Section 5.

(b) A Participant's withdrawal from an Offering Period will not have any effect upon his or her eligibility to participate in any similar plan that may hereafter be adopted by the Company or in succeeding Offering Periods that commence after the termination of the Offering Period from which the Participant withdraws.

11. *Termination of Employment.* Upon a Participant's ceasing to be an Eligible Employee, for any reason, he or she will be deemed to have elected to withdraw from the Plan and the Contributions credited to such Participant's account during the Offering Period but not yet used to purchase shares of Common Stock under the Plan will be returned to such Participant or, in the case of his or her death, to the person or persons entitled thereto under Section 15, and such Participant's option will be automatically terminated.

12. *Interest.* No interest will accrue on the Contributions of a participant in the Plan, except as may be required by applicable law, as determined by the Company, and if so required by the laws of a particular jurisdiction, shall apply to all Participants in the relevant Offering except to the extent otherwise permitted by U.S. Treasury Regulation Section 1.423-2(f).

13. *Stock.*

(a) Subject to adjustment upon changes in capitalization of the Company as provided in Section 19 hereof, the maximum number of shares of Common Stock that will be made available for sale under the Plan will be nine hundred thousand (900,000) shares of Common Stock.

(b) Until the shares are issued (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company), a Participant will only have the rights of an unsecured creditor with respect to such shares, and no right to vote or receive dividends or any other rights as a stockholder will exist with respect to such shares.

(c) Shares of Common Stock to be delivered to a Participant under the Plan will be registered in the name of the Participant or in the name of the Participant and his or her spouse.

14. *Administration.* The Plan will be administered by the Board or a Committee appointed by the Board, which Committee will be constituted to comply with Applicable Laws. The Administrator will have full and exclusive discretionary authority to construe, interpret and apply the terms of the Plan, to designate separate Offerings under the Plan, to determine eligibility, to adjudicate all disputed claims filed under the Plan and to establish such procedures that it deems necessary for the administration of the Plan (including, without limitation, to adopt such procedures and sub-plans as are necessary or appropriate to permit the participation in the Plan by employees who are foreign nationals or employed outside the U.S.). Unless otherwise determined by the Administrator, the Employees eligible to participate in each sub-plan will participate in a separate Offering. Without limiting the generality of the foregoing, the Administrator is specifically authorized to adopt rules and procedures regarding eligibility to participate, the definition of Compensation, handling of Contributions, making of Contributions to the Plan (including, without limitation, in forms other than payroll deductions), establishment of bank or trust accounts to hold Contributions, payment of interest, conversion of local currency, obligations to pay payroll tax, determination of beneficiary designation requirements, withholding procedures and handling of stock certificates that vary with applicable local requirements. Every finding, decision and determination made by the Administrator will, to the full extent permitted by law, be final and binding upon all parties.

15. *Designation of Beneficiary.*

(a) If permitted by the Administrator, a Participant may file a designation of a beneficiary who is to receive any shares of Common Stock and cash, if any, from the Participant's account under the Plan in the event of such Participant's death subsequent to an Exercise Date on which the option is exercised but prior to delivery to such Participant of such shares and cash. In addition, if permitted by the Administrator, a Participant may file a designation of a beneficiary who is to receive any cash from the Participant's account under the Plan in the event of such Participant's death prior to exercise of the option. If a Participant is

married and the designated beneficiary is not the spouse, spousal consent will be required for such designation to be effective.

(b) Such designation of beneficiary may be changed by the Participant at any time by notice in a form determined by the Administrator. In the event of the death of a Participant and in the absence of a beneficiary validly designated under the Plan who is living at the time of such Participant's death, the Company will deliver such shares and/or cash to the executor or administrator of the estate of the Participant, or if no such executor or administrator has been appointed (to the knowledge of the Company), the Company, in its discretion, may deliver such shares and/or cash to the spouse or to any one or more dependents or relatives of the Participant, or if no spouse, dependent or relative is known to the Company, then to such other person as the Company may designate.

(c) All beneficiary designations will be in such form and manner as the Administrator may designate from time to time. Notwithstanding Sections 15(a) and (b) above, the Company and/or the Administrator may decide not to permit such designations by Participants in non-U.S. jurisdictions to the extent permitted by U.S. Treasury Regulation Section 1.423-2(f).

16. *Transferability*. Neither Contributions credited to a Participant's account nor any rights with regard to the exercise of an option or to receive shares of Common Stock under the Plan may be assigned, transferred, pledged or otherwise disposed of in any way (other than by will, the laws of descent and distribution or as provided in Section 15 hereof) by the Participant. Any such attempt at assignment, transfer, pledge or other disposition will be without effect, except that the Company may treat such act as an election to withdraw funds from an Offering Period in accordance with Section 10 hereof.

17. *Use of Funds*. The Company may use all Contributions received or held by it under the Plan for any corporate purpose, and the Company will not be obligated to segregate such Contributions except under Offerings in which applicable local law requires that Contributions to the Plan by Participants be segregated from the Company's general corporate funds and/or deposited with an independent third party for Participants in non-U.S. jurisdictions. Until shares of Common Stock are issued, Participants will only have the rights of an unsecured creditor with respect to such shares.

18. *Reports*. Individual accounts will be maintained for each Participant in the Plan. Statements of account will be given to participating Eligible Employees at least annually, which statements will set forth the amounts of Contributions, the Purchase Price, the number of shares of Common Stock purchased and the remaining cash balance, if any.

19. *Adjustments, Dissolution, Liquidation, Merger or Change in Control*.

(a) *Adjustments*. In the event that any dividend or other distribution (whether in the form of cash, Common Stock, other securities, or other property), recapitalization, stock split, reverse stock split, reorganization, merger, consolidation, split-up, spin-off, combination, repurchase, or exchange of Common Stock or other securities of the Company, or other change in the corporate structure of the Company affecting the Common Stock occurs, the Administrator, in order to prevent dilution or enlargement of the benefits or potential benefits intended to be made available under the Plan, will, in such manner as it may deem equitable, adjust the number and class of Common Stock that may be delivered under the Plan, the Purchase Price per share and the number of shares of Common Stock covered by each option under the Plan that has not yet been exercised, and the numerical limits of Sections 7 and 13.

(b) *Dissolution or Liquidation*. In the event of the proposed dissolution or liquidation of the Company, any Offering Period then in progress will be shortened by setting a New Exercise Date, and will terminate immediately prior to the consummation of such proposed dissolution or liquidation, unless provided otherwise by the Administrator. The New Exercise Date will be before the date of the Company's proposed dissolution or liquidation. The Administrator will notify each Participant in writing or electronically, prior to the New Exercise Date, that the Exercise Date for the Participant's option has been changed to the New Exercise Date and that the Participant's option will be exercised automatically on the New Exercise Date, unless prior to such date the Participant has withdrawn from the Offering Period as provided in Section 10 hereof.

(c) *Merger or Change in Control.* In the event of a merger or Change in Control, each outstanding option will be assumed or an equivalent option substituted by the successor corporation or a Parent or Subsidiary of the successor corporation. In the event that the successor corporation refuses to assume or substitute for the option, the Offering Period with respect to which such option relates will be shortened by setting a New Exercise Date on which such Offering Period shall end. The New Exercise Date will occur before the date of the Company's proposed merger or Change in Control. The Administrator will notify each Participant in writing or electronically prior to the New Exercise Date, that the Exercise Date for the Participant's option has been changed to the New Exercise Date and that the Participant's option will be exercised automatically on the New Exercise Date, unless prior to such date the Participant has withdrawn from the Offering Period as provided in Section 10 hereof.

20. *Amendment or Termination.*

(a) The Administrator, in its sole discretion, may amend, suspend, or terminate the Plan, or any part thereof, at any time and for any reason. If the Plan is terminated, the Administrator, in its discretion, may elect to terminate all outstanding Offering Periods either immediately or upon completion of the purchase of shares of Common Stock on the next Exercise Date (which may be sooner than originally scheduled, if determined by the Administrator in its discretion), or may elect to permit Offering Periods to expire in accordance with their terms (and subject to any adjustment pursuant to Section 19). If the Offering Periods are terminated prior to expiration, all amounts then credited to Participants' accounts that have not been used to purchase shares of Common Stock will be returned to the Participants (without interest thereon, except as otherwise required under local laws, as further set forth in Section 12 hereof) as soon as administratively practicable.

(b) Without stockholder consent and without limiting Section 20(a), the Administrator will be entitled to change the Offering Periods, designate separate Offerings, limit the frequency and/or number of changes in the amount withheld during an Offering Period, establish the exchange ratio applicable to amounts withheld in a currency other than U.S. dollars, permit payroll withholding in excess of the amount designated by a Participant in order to adjust for delays or mistakes in the Company's processing of properly completed withholding elections, establish reasonable waiting and adjustment periods and/or accounting and crediting procedures to ensure that amounts applied toward the purchase of Common Stock for each Participant properly correspond with Contribution amounts, and establish such other limitations or procedures as the Administrator determines in its sole discretion advisable that are consistent with the Plan.

(c) In the event the Administrator determines that the ongoing operation of the Plan may result in unfavorable financial accounting consequences, the Administrator may, in its discretion and, to the extent necessary or desirable, modify, amend or terminate the Plan to reduce or eliminate such accounting consequence including, but not limited to:

(i) amending the Plan to conform with the safe harbor definition under Statement of Financial Accounting Standards Codification Topic 718 (or any successor thereto), including with respect to an Offering Period underway at the time;

(ii) altering the Purchase Price for any Offering Period including an Offering Period underway at the time of the change in Purchase Price;

(iii) shortening any Offering Period by setting a New Exercise Date, including an Offering Period underway at the time of the Administrator action;

(iv) reducing the maximum percentage of Compensation a Participant may elect to set aside as Contributions; and

(v) reducing the maximum number of Shares a Participant may purchase during any Purchase Period or Offering Period.

Such modifications or amendments will not require stockholder approval or the consent of any Plan Participants.

21. Notices. All notices or other communications by a Participant to the Company under or in connection with the Plan will be deemed to have been duly given when received in the form and manner specified by the Company at the location, or by the person, designated by the Company for the receipt thereof.

22. Conditions Upon Issuance of Shares. Shares of Common Stock will not be issued with respect to an option unless the exercise of such option and the issuance and delivery of such shares pursuant thereto will comply with all applicable provisions of law, domestic or foreign, including, without limitation, the Securities Act of 1933, as amended, the Exchange Act, the rules and regulations promulgated thereunder, and the requirements of any stock exchange upon which the shares may then be listed, and will be further subject to the approval of counsel for the Company with respect to such compliance.

As a condition to the exercise of an option, the Company may require the person exercising such option to represent and warrant at the time of any such exercise that the shares are being purchased only for investment and without any present intention to sell or distribute such shares if, in the opinion of counsel for the Company, such a representation is required by any of the aforementioned applicable provisions of law.

23. Code Section 409A. The Plan is exempt from the application of Code Section 409A and any ambiguities herein will be interpreted to so be exempt from Code Section 409A. In furtherance of the foregoing and notwithstanding any provision in the Plan to the contrary, if the Administrator determines that an option granted under the Plan may be subject to Code Section 409A or that any provision in the Plan would cause an option under the Plan to be subject to Code Section 409A, the Administrator may amend the terms of the Plan and/or of an outstanding option granted under the Plan, or take such other action the Administrator determines is necessary or appropriate, in each case, without the Participant's consent, to exempt any outstanding option or future option that may be granted under the Plan from or to allow any such options to comply with Code Section 409A, but only to the extent any such amendments or action by the Administrator would not violate Code Section 409A. Notwithstanding the foregoing, the Company shall have no liability to a Participant or any other party if the option to purchase Common Stock under the Plan that is intended to be exempt from or compliant with Code Section 409A is not so exempt or compliant or for any action taken by the Administrator with respect thereto. The Company makes no representation that the option to purchase Common Stock under the Plan is compliant with Code Section 409A.

24. Stockholder Approval. The Plan will be subject to approval by the stockholders of the Company within twelve (12) months after the date the Plan is adopted by the Board. Such stockholder approval will be obtained in the manner and to the degree required under Applicable Laws.

25. Term of Plan. The Plan will become effective upon the earlier to occur of its adoption by the Board or its approval by the stockholders of the Company. It will continue in effect for a term of ten (10) years, unless sooner terminated under Section 20.

26. Governing Law. The Plan shall be governed by, and construed in accordance with, the laws of the State of Washington (except its choice-of-law provisions).

27. Severability. If any provision of the Plan is or becomes or is deemed to be invalid, illegal, or unenforceable for any reason in any jurisdiction or as to any Participant, such invalidity, illegality or unenforceability shall not affect the remaining parts of the Plan, and the Plan shall be construed and enforced as to such jurisdiction or Participant as if the invalid, illegal or unenforceable provision had not been included.

28. Automatic Transfer to Low Price Offering Period. To the extent permitted by Applicable Laws, if the Fair Market Value of the Common Stock on any Exercise Date in an Offering Period is lower than the Fair Market Value of the Common Stock on the Enrollment Date of such Offering Period, then all participants in such Offering Period will be automatically withdrawn from such Offering Period immediately after the exercise of their option on such Exercise Date and automatically re-enrolled in the immediately following Offering Period as of the first day thereof.



▼ IF YOU HAVE NOT VOTED VIA THE INTERNET QR TELEPHONE, FOLD ALONG THE PERFORATION, DETACH AND RETURN THE BOTTOM PORTION IN THE ENCLOSED ENVELOPE. ▼

Proxy — ONCOTHYREON INC.

PROXY FOR ANNUAL MEETING OF STOCKHOLDERS

JUNE 3, 2010

**THIS PROXY IS SOLICITED ON BEHALF OF THE
BOARD OF DIRECTORS OF
ONCOTHYREON INC.**

PLEASE SIGN AND RETURN IMMEDIATELY

The undersigned stockholder of ONCOTHYREON INC. ("Oncothyreon") hereby nominates, constitutes and appoints Dr. Robert L. Kirkman and Mr. Shashi K. Karan, and each of them, jointly and severally, as true and lawful agents and proxies, with full power of substitution, for me and in my name, place and stead, to act and vote all the common stock of Oncothyreon standing in my name and on its books on April 22, 2010 at the Annual Meeting of Stockholders to be held at the Hotel Andra, 2000 Fourth Avenue, Seattle, Washington 98121, on June 3, 2010 at 9:00 a.m., local time, and at any adjournment thereof, with all the powers the undersigned would possess if personally present, as specified on the reverse.

THIS PROXY WHEN PROPERLY EXECUTED WILL BE VOTED IN THE MANNER DIRECTED HEREIN. IF NO DIRECTION IS MADE, THIS PROXY WILL BE VOTED "FOR" THE PROPOSALS SET FORTH WITHIN.

Management knows of no other matters that may properly be, or which are likely to be, brought before the Annual Meeting. However, if any other matters are properly presented at the Annual Meeting, this Proxy will be voted according to the discretion of the named proxies.

The undersigned hereby acknowledges receipt of the Notice of the Annual Meeting of Stockholders for the June 3, 2010 Annual Meeting, and the accompanying documents forwarded therewith, and ratifies all lawful action taken by the above-named agents and proxies.

(Continued and to be marked, signed and dated on the other side)

