

ALNYLAM PHARMACEUTICALS, INC.

Form DEF 14A

April 24, 2013

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 14A

(Rule 14a-101)

INFORMATION REQUIRED IN PROXY STATEMENT

SCHEDULE 14A INFORMATION

**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

ALNYLAM PHARMACEUTICALS, 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.

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.. Fee computed on table below per Exchange Act Rules 14a-6(i)(1) 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:

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ALNYLAM PHARMACEUTICALS, INC.

300 THIRD STREET

CAMBRIDGE, MASSACHUSETTS 02142

NOTICE OF 2013 ANNUAL MEETING OF STOCKHOLDERS

To Be Held On June 6, 2013

To our Stockholders:

NOTICE IS HEREBY GIVEN that the 2013 Annual Meeting of Stockholders of Alnylam Pharmaceuticals, Inc. will be held on Thursday, June 6, 2013 at 9:00 a.m., Eastern Time, at the offices of Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts. At the meeting, stockholders will consider and act on the following matters:

1. To elect three (3) members to our board of directors, as nominated by our board of directors, each to serve as a Class III director for a term ending in 2016, or until a successor has been duly elected and qualified;
2. To approve our 2009 Stock Incentive Plan, as amended, to among other things, increase the number of shares authorized for issuance thereunder from 2,200,000 shares to 5,900,000 shares;
3. To approve, on a non-binding advisory basis, the compensation of our named executive officers, as described in the Compensation Discussion and Analysis, executive compensation tables and accompanying narrative disclosures in this proxy statement;
4. To ratify the appointment of PricewaterhouseCoopers LLP, an independent registered public accounting firm, as our independent auditors for the fiscal year ending December 31, 2013; and
5. To transact any other business that may properly come before the annual meeting or any adjournment or postponement thereof.

Proposal 1 relates solely to the election of three (3) Class III directors nominated by our board of directors and does not include any other matters relating to the election of directors, including without limitation, the election of directors nominated by any stockholder of the company.

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Stockholders of record at the close of business on April 19, 2013, the record date for the annual meeting, are entitled to notice of, and to vote at, the annual meeting or any adjournment or postponement thereof. Your vote is important regardless of the number of shares you own. All stockholders are cordially invited to attend the annual meeting in person. However, to assure your representation at the annual meeting, if you are a stockholder of record, please vote in one of these three ways:

Vote Over the Internet, by going to the website of our tabulator, Computershare Trust Company, N.A., at www.investorvote.com/ALNY and following the instructions for Internet voting shown on the enclosed proxy card;

Vote by Telephone, by calling 1-800-652-VOTE (8683) and following the recorded instructions; or

Vote by Mail, by completing and signing your enclosed proxy card and mailing it in the enclosed postage prepaid envelope. If you vote over the Internet or by telephone, please do not mail your proxy.

If your shares are held in street name, that is, held for your account by a broker or other nominee, you will receive instructions from the holder of record that you must follow for your shares to be voted.

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We encourage all stockholders to attend the annual meeting in person. If you vote via the Internet or by telephone or mail your proxy in, you will not limit your right to vote in person at the annual meeting. You may obtain directions to the location of the annual meeting on our website at www.alnylam.com. Whether or not you plan to attend the annual meeting in person, we hope you will take the time to vote your shares.

By Order of the Board of Directors

John M. Maraganore, Ph.D.
Chief Executive Officer

Cambridge, Massachusetts

April 24, 2013

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ALNYLAM PHARMACEUTICALS, INC.
300 THIRD STREET
CAMBRIDGE, MASSACHUSETTS 02142

PROXY STATEMENT

for the 2013 Annual Meeting of Stockholders
to be held on June 6, 2013

This proxy statement and the enclosed proxy card are being furnished in connection with the solicitation of proxies by the board of directors of Alnylam Pharmaceuticals, Inc. for use at the 2013 Annual Meeting of Stockholders to be held on Thursday, June 6, 2013 at 9:00 a.m., Eastern Time, at the offices of Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts, and at any adjournment or postponement thereof.

All proxies will be voted in accordance with the instructions contained in those proxies. If no choice is specified, the proxies will be voted in favor of the matters set forth in the accompanying Notice of Meeting.

Our 2013 CEO Letter to Shareholders and Annual Report on Form 10-K for the fiscal year ended December 31, 2012 are being mailed with these proxy materials to all stockholders entitled to vote at the annual meeting. These proxy materials are expected to be first mailed to stockholders on or about April 29, 2013.

Important Notice Regarding the Availability of Proxy Materials for
the Annual Meeting of Stockholders to be Held on June 6, 2013:

This proxy statement (including Appendix A hereto), our Annual Report on Form 10-K and our 2013 CEO Letter to Shareholders are available for viewing, printing and downloading at www.alnylam.com/AnnualMeeting.

A copy of our Annual Report on Form 10-K for the fiscal year ended December 31, 2012, as filed with the Securities and Exchange Commission, or SEC, as well as Appendix A to this proxy statement, will be furnished without charge to any stockholder upon written request to Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts 02142, Attention: Investor Relations and Corporate Communications.

This proxy statement (including Appendix A hereto) and our Annual Report on Form 10-K for the fiscal year ended December 31, 2012 are also available on the SEC's website at www.sec.gov.

IMPORTANT INFORMATION ABOUT THE ANNUAL MEETING AND VOTING

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- Q. Why did I receive these proxy materials?** **A.** We are providing these proxy materials to you in connection with the solicitation by our board of directors of proxies to be voted at our 2013 annual meeting of stockholders to be held at our offices at 300 Third Street, Cambridge, Massachusetts on Thursday, June 6, 2013 at 9:00 a.m., Eastern Time. As a stockholder of Alnylam, you are invited to attend our annual meeting and are entitled and requested to vote on the proposals described in this proxy statement.
- Q. Who can vote at the annual meeting?** **A.** To be entitled to vote, you must have been a stockholder of record at the close of business on April 19, 2013, the record date for our annual meeting. As of the record date, there were 62,139,891 shares of our common stock outstanding and entitled to be voted at the annual meeting.
- If you were a stockholder of record on April 19, 2013, you are entitled to vote all of the shares that you held on that date at the annual meeting and at any postponement or adjournment thereof.

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Q. What are the voting rights of the holders of common stock?

A. Each outstanding share of our common stock will be entitled to one vote on each matter considered at the annual meeting.

Q. How do I vote?

A. If your shares are registered directly in your name, you may vote:

(1) **Over the Internet:** Go to the website of our tabulator, Computershare Trust Company, N.A., at www.investorvote.com/ALNY. Use the vote control number printed on your enclosed proxy card to access your account and vote your shares. You must specify how you want your shares voted or your Internet vote cannot be completed and you will receive an error message. Your shares will be voted according to your instructions. You must submit your Internet proxy before 11:59 p.m., Eastern Time, on June 5, 2013, the day before the annual meeting, for your proxy to be valid and your vote to count.

(2) **By Telephone:** Call 1-800-652-VOTE (8683), toll free from the United States, Canada and Puerto Rico, and follow the recorded instructions. You must specify how you want your shares voted and confirm your vote at the end of the call or your telephone vote cannot be completed. Your shares will be voted according to your instructions. You must submit your telephonic proxy before 11:59 p.m., Eastern Time, on June 5, 2013, the day before the annual meeting, for your proxy to be valid and your vote to count.

(3) **By Mail:** Complete and sign your enclosed proxy card and mail it in the enclosed postage prepaid envelope to Computershare. Computershare must receive the proxy card not later than June 5, 2013, the day before the annual meeting, for your proxy to be valid and your vote to count. Your shares will be voted according to your instructions. If you do not specify how you want your shares voted, the persons named as proxies will follow our board's recommendations and vote your shares:

FOR the election of all director nominees;

FOR the approval of our 2009 Stock Incentive Plan, as amended, to, among other things, increase the number of shares authorized for issuance thereunder;

FOR the approval, on a non-binding advisory basis, of named executive officer compensation;

FOR the ratification of the appointment of PricewaterhouseCoopers LLP as our independent auditors for the fiscal year ending December 31, 2013; and

On any other matters properly brought before the annual meeting, in accordance with the best judgment of the named proxies.

(4) **In Person at the Meeting:** If you attend the annual meeting, you may deliver your completed proxy card in person or you may vote by completing a ballot, which we will provide to you at the meeting. You may still attend the annual meeting and vote in person even if you have already voted by proxy.

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If your shares are held in street name, meaning they are held for your account by a bank, broker or other nominee, you should receive a proxy card and voting instructions with these proxy materials from that organization rather than from Alnylam. You will receive instructions from your bank, broker or other nominee explaining how you can vote your shares and whether they permit Internet or telephone voting. Follow the instructions from your broker, bank or other nominee included with these proxy materials, or contact your broker or bank to request a proxy form. To vote in person at the annual meeting, contact your bank, broker or other nominee who holds your shares to obtain a broker's proxy card and bring it with you to the annual meeting. A broker's proxy is *not* the form of proxy enclosed with this proxy statement. **You will not be able to vote shares you hold in street name in person at the annual meeting unless you have a proxy from your bank, broker or other nominee issued in your name giving you the right to vote your shares.**

Q. Can I change my vote?

A. If your shares are registered directly in your name, you may revoke your proxy and change your vote at any time before the annual meeting. To do so, you must do one of the following:

(1) Vote over the Internet or by telephone as instructed above. Only your latest Internet or telephone vote is counted. You may not change your vote over the Internet or by telephone after 11:59 p.m., Eastern Time, on June 5, 2013.

(2) Sign a new proxy and submit it as instructed above. Only your latest dated proxy, received by Computershare not later than June 5, 2013, will be counted.

(3) Attend the annual meeting, request that your proxy be revoked and vote in person as instructed above. Attending the annual meeting will not revoke your Internet vote, telephone vote or proxy, as the case may be, unless you specifically request it.

If your shares are held in street name, you may submit new voting instructions by contacting your bank, broker or other nominee. You may also vote in person at the annual meeting if you obtain a broker's proxy as described in the answer above.

Q. Will my shares be voted if I do not return my proxy?

A. If your shares are registered directly in your name, your shares will not be voted if you do not vote over the Internet, by telephone, by returning your proxy or by ballot at the annual meeting.

If your shares are held in street name, your bank, broker or other nominee may under certain circumstances vote your shares if you do not timely return your proxy. Banks, brokers and other nominees can vote customers' unvoted shares on discretionary matters but cannot vote such shares on non-discretionary matters. If you do not timely return a proxy to your bank, broker or other nominee to vote your shares, your bank, broker or other nominee may, on discretionary matters, either vote your shares or leave your shares unvoted. **Your bank, broker or other nominee cannot vote your shares on any non-discretionary matter.**

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The election of directors (Proposal 1), the approval of our 2009 Stock Incentive Plan, which we refer to as the 2009 Plan, as amended (Proposal 2), and the non-binding advisory vote on executive compensation (Proposal 3), are non-discretionary matters. The ratification of the appointment of our independent auditors (Proposal 4) is a discretionary matter. We encourage you to provide voting instructions to your bank, broker or other nominee by giving your proxy to them. This ensures that your shares will be voted at the annual meeting according to your instructions. You should receive directions from your bank, broker or other nominee about how to submit your proxy to them at the time you receive this proxy statement.

Q. How many shares must be present to hold the annual meeting?

A. A majority of our outstanding shares of common stock must be present to hold the annual meeting and conduct business. This is called a quorum. For purposes of determining whether a quorum exists, we count as present any shares that are voted over the Internet, by telephone, by completing and submitting a proxy or that are represented in person at the meeting. Further, for purposes of establishing a quorum, we will count as present shares that a stockholder holds even if the stockholder votes to abstain or only votes on one of the proposals. In addition, we will count as present shares held in street name by banks, brokers or nominees who indicate on their proxies that they do not have authority to vote those shares on Proposals 1, 2 and 3. If a quorum is not present, we expect to adjourn the annual meeting until we obtain a quorum.

Q. What vote is required to approve each matter and how are votes counted?

A. Proposal 1 Election of Three Class III Directors

The three nominees for Class III director receiving the highest number of votes FOR election will be elected as directors. This is called a plurality. **Proposal 1 is a non-discretionary matter.** Therefore, if your shares are held by your bank, broker or other nominee in street name and you do not vote your shares, your bank, broker or other nominee cannot vote your shares on Proposal 1. Shares held in street name by banks, brokers or nominees who indicate on their proxies that they do not have authority to vote the shares on Proposal 1 will not be counted as votes FOR or WITHHELD from any nominee and will be treated as broker non-votes. As a result, broker non-votes will have no effect on the voting on Proposal 1. With respect to Proposal 1, you may:

vote FOR all nominees;

vote FOR one or more nominee(s) and WITHHOLD your vote from the other nominee(s); or

WITHHOLD your vote from all nominees.

Votes that are withheld will not be included in the vote tally for the election of directors and will not affect the results of the vote.

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Proposal 2 Approval of our 2009 Plan, as amended

To approve Proposal 2 to, among other things, increase the authorized shares reserved under the 2009 Plan, stockholders holding a majority of the votes cast on the matter must vote FOR the proposal.

Proposal 2 is a non-discretionary matter. Therefore, if your shares are held by your bank, broker or other nominee in street name and you do not vote your shares, your bank, broker or other nominee cannot vote your shares on Proposal 2, and your non-vote will have no effect on the outcome of this proposal. If you vote to ABSTAIN on this Proposal 2, your shares will not be voted FOR or AGAINST the proposal and will also not be counted as votes cast or shares withheld on Proposal 2. As a result, voting to ABSTAIN will have no effect on the voting on Proposal 2.

Proposal 3 Non-binding Advisory Vote on the Compensation of Our Named Executive Officers

To approve Proposal 3, stockholders holding a majority of the votes cast on the matter must vote FOR the approval of the compensation of our named executive officers, as described in the Compensation Discussion and Analysis, executive compensation tables and accompanying narrative disclosures in this proxy statement. **Proposal 3 is a non-discretionary matter.** Therefore, if your shares are held by your bank, broker or other nominee in street name and you do not vote your shares, your bank, broker or other nominee cannot vote your shares on Proposal 3, and your non-vote will have no effect on the outcome of this proposal. If you vote to ABSTAIN on this Proposal 3, your shares will not be voted FOR or AGAINST the proposal and will also not be counted as votes cast or shares withheld on Proposal 3. As a result, voting to ABSTAIN will have no effect on the voting on Proposal 3.

As an advisory vote, this proposal is not binding. The outcome of this advisory vote will not overrule any decision by us or our board of directors (or any committee thereof). However, our compensation committee and our board of directors value the opinions expressed by our stockholders in their vote on this proposal and will consider the outcome of the vote when making future compensation decisions for our named executive officers.

Proposal 4 Ratification of Appointment of Independent Auditors

To approve Proposal 4, stockholders holding a majority of the votes cast on the matter must vote FOR the proposal. **Proposal 4 is a discretionary matter.** If your shares are held by your bank, broker or other nominee in street name and you do not vote your shares, your bank, broker or other nominee may vote your unvoted shares on Proposal 4. If you vote to ABSTAIN on Proposal 4, your shares will not be voted FOR or AGAINST the proposal and will also not be counted as votes cast or shares voting on the proposal. As a result, voting to ABSTAIN will have no effect on the voting on Proposal 4.

Although stockholder approval of our audit committee's appointment of PricewaterhouseCoopers LLP as our independent auditors for the year ended December 31, 2013 is not required, we believe that it is advisable to give stockholders an opportunity to ratify this appointment. If this proposal is not approved at the annual meeting, our audit committee will reconsider its appointment of PricewaterhouseCoopers LLP as our independent auditors for the year ended December 31, 2013.

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- Q. Are there other matters to be voted on at the annual meeting?**
- A.** We do not know of any matters that may come before the annual meeting other than the election of three Class III directors, the approval of our 2009 Plan, as amended, the non-binding advisory vote on the compensation of our named executive officers and the ratification of the appointment of our independent auditors. If any other matters are properly presented at the annual meeting, the persons named in the accompanying proxy intend to vote, or otherwise act, in accordance with their judgment on the matter.
- Q. Where can I find the voting results?**
- A.** Preliminary voting results will be announced at the annual meeting. We expect to report the voting results in a Current Report on Form 8-K within four business days following the adjournment of our annual meeting. If final voting results are not available to us in time to file a current report on Form 8-K within four business days after the annual meeting, we intend to file a current report on Form 8-K to publish preliminary results and, within four business days after the final results are known to us, to file an additional current report on Form 8-K to publish the final results.
- Q. What are the costs of soliciting these proxies?**
- A.** We will bear the cost of soliciting proxies. In addition to these proxy materials, our directors, officers and employees may solicit proxies by telephone, e-mail, facsimile and in person, without additional compensation. We have also retained Alliance Advisors LLC to solicit proxies by mail, courier, telephone and facsimile and to request brokers, custodians and fiduciaries to forward proxy soliciting materials to the owners of stock held in their names. For these services, we have paid a fee of \$12,500, plus expenses. We may reimburse brokers or persons holding stock in their names, or in the names of their nominees, for their expenses in sending proxies and proxy materials to beneficial owners.
- Q. How do I vote my 401(k) shares?**
- A.** You may give voting instructions for the number of shares of Alnylam common stock equal to the interest in Alnylam common stock credited to your 401(k) plan account as of the record date. To vote these shares, complete and return to Computershare the proxy card sent to you with this proxy statement. The 401(k) plan trustee will vote your shares according to your instructions. Only Computershare and its affiliates or agents will have access to your individual voting instructions. You may revoke previously given voting instructions by filing with the trustee either a written revocation or a properly completed and signed proxy bearing a later date. To vote your 401(k) plan shares, you must provide your voting instructions to Computershare before 11:59 p.m., Eastern Time, on June 4, 2013, for your proxy to be valid and your vote to count. If you do not provide voting instructions to the 401(k) plan trustee, the 401(k) plan trustee will not vote your shares.

Householding of Annual Meeting Materials

Some banks, brokers and other nominee record holders may be participating in the practice of householding proxy statements and annual reports. This means that only one copy of our proxy statement and annual report to stockholders may have been sent to multiple stockholders in your household. We will promptly deliver a separate copy of either document to you upon written or oral request to Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts 02142, Attention: Investor Relations and Corporate Communications, telephone: (617) 551-8200. If you want to receive separate copies of the proxy statement or annual report to stockholders in the future, or if you are receiving multiple copies and would like to receive only one copy per household, you should contact your bank, broker or other nominee record holder, or you may contact us at the above address and phone number.

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The following table sets forth information regarding beneficial ownership of our common stock as of March 31, 2013, except as otherwise set forth in the footnotes below, by:

each person, or group of affiliated persons, known to us to be the beneficial owner of 5% or more of the outstanding shares of our common stock;

each of our directors and director nominees;

our principal executive officer, our principal financial officer and our three other most highly compensated executive officers who were serving as executive officers on December 31, 2012, whom, collectively, we refer to as our named executive officers; and

all of our directors and executive officers as a group.

The number of shares of common stock beneficially owned by each person or entity is determined in accordance with the applicable rules of the SEC and includes voting or investment power with respect to shares of our common stock. The information is not necessarily indicative of beneficial ownership for any other purpose. Unless otherwise indicated, to our knowledge, all persons named in the table have sole voting and investment power with respect to their shares of common stock, except to the extent authority is shared by spouses under community property laws. The inclusion herein of any shares as beneficially owned does not constitute an admission of beneficial ownership of those shares by the person listed in the table.

Name and Address of	Number of	+	Number of	=	Total	Percentage of
Beneficial Owner(1)	Shares Owned		Acquirable Within		Beneficial	Common
Holders of more than 5% of our common stock			60 Days(2)		Ownership	Beneficially Owned(3)
FMR LLC(4)	7,862,160				7,862,160	12.7%
Eastern Capital Limited(5)	4,929,116				4,929,116	7.9%
Novartis Pharma AG(6)	4,051,002				4,051,002	6.5%
BlackRock, Inc.(7)	3,298,120				3,298,120	5.3%
Directors and Named Executive Officers						
Dennis A. Ausiello, M.D.	16,665(8)				16,665	*
John K. Clarke	8,891		95,000		103,891	*
Victor J. Dzau, M.D.			90,000		90,000	*
Marsha H. Fanucci	10,000		35,000		45,000	*
John M. Maraganore, Ph.D.	21,058(9)		1,349,429		1,370,487	2.2%
Steven M. Paul, M.D.			35,000		35,000	*
Paul R. Schimmel, Ph.D.	314,496(10)		75,000		389,496	*
Phillip A. Sharp, Ph.D.	266,899(11)		315,000		581,899	*
Kevin P. Starr			165,000		165,000	*
Barry E. Greene	6,884(9)		543,134		550,018	*
Akshay K. Vaishnav, M.D., Ph.D.	14,983(9)		204,662		219,645	*
Laurence E. Reid, Ph.D.	13,188(9)		143,331		156,519	*
Michael P. Mason	9,588(9)		66,230		75,818	*
All directors and current executive officers as a group (13 persons)	682,652		3,116,786		3,799,438	5.8%

* Less than 1% of our outstanding common stock.

(1) Unless otherwise indicated, the address of each stockholder is c/o Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, MA 02142.

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- (2) Reflects shares issuable upon the exercise of stock options that are exercisable or will become exercisable within 60 days after March 31, 2013.
- (3) Percentage of beneficial ownership is based on 62,130,830 shares of our common stock outstanding as of March 31, 2013, which includes the 9,200,000 shares we sold in a public offering in January 2013. However, other than with respect to our officers and directors, unless reported pursuant to Section 13 or Section 16, we have not included with respect to other beneficial owners the number of shares purchased by such owners in connection with the public offering, if any. Shares of common stock subject to options currently exercisable, or exercisable within 60 days of March 31, 2013, are deemed outstanding for computing the percentage of the common stock beneficially owned by the person holding such options but are not deemed outstanding for computing the percentage ownership of any other person.
- (4) According to Amendment No. 8 to a Schedule 13G filed by FMR LLC (previously known as FMR Corp.) with the SEC on February 14, 2013, as of December 31, 2012, Fidelity Management & Research Company, a wholly owned subsidiary of FMR LLC and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, is the beneficial owner of 7,794,947 shares of our common stock, as a result of acting as an investment adviser to various investment companies registered under Section 8 of the Investment Company Act of 1940. The ownership of one investment company, Fidelity Growth Company Fund, amounted to 3,964,510 shares of our common stock. Edward C. Johnson 3d, Chairman of FMR LLC, and FMR LLC, through its control of Fidelity Management & Research Company, and the funds, each has sole power to dispose of the 7,794,947 shares of our common stock owned by such funds. Neither FMR LLC nor Edward C. Johnson 3d has the sole power to vote or direct the voting of the shares owned directly by such funds, which power resides with the funds' Boards of Trustees. Fidelity Management & Research Company carries out the voting of the shares under written guidelines established by the funds' Boards of Trustees. Pyramis Global Advisors Trust Company, or PGATC, an indirect wholly-owned subsidiary of FMR LLC and a bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934, as amended, or the Exchange Act, is the beneficial owner of 67,213 shares of our common stock, as a result of its serving as investment manager of institutional accounts owning such shares. Mr. Johnson and FMR LLC, through its control of PGATC, each has sole dispositive and voting power of the 67,213 shares owned by the institutional accounts managed by PGATC as reported above. Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the shares of our common stock held by these funds. The address of FMR LLC is 82 Devonshire Street, Boston, MA 02109.
- (5) According to Amendment No. 3 to a Schedule 13G filed by Eastern Capital Limited with the SEC on February 13, 2013, as of December 31, 2012, Eastern Capital Limited, a direct wholly owned subsidiary of Portfolio Services Ltd., a Cayman Islands corporation, and Kenneth B. Dart, beneficially own 4,929,116 shares of our common stock. Mr. Dart is the beneficial owner of all of the outstanding shares of Portfolio Services Ltd., which in turn owns all the outstanding shares of Eastern Capital Limited. Eastern Capital Limited, Portfolio Services Ltd. and Mr. Dart have shared voting and dispositive power with respect to the shares held. The address of Eastern Capital Limited is 10 Market Street, #773, Camana Bay, Grand Cayman, KY1-9006, Cayman Islands.
- (6) According to Amendment No. 4 to a Schedule 13G filed by Novartis AG and Novartis Pharma AG with the SEC on February 11, 2013, as of December 31, 2012, Novartis Pharma AG is the record and beneficial owner of 4,051,002 shares of our common stock and Novartis AG, as parent of Novartis Pharma AG, is the indirect beneficial owner of such shares. The address of Novartis Pharma AG is Lichtstrasse 35, CH-4002, Basel, Switzerland.
- (7) According to Amendment No. 3 to a Schedule 13G filed by BlackRock, Inc. with the SEC on February 6, 2013, as of December 31, 2012, BlackRock, Inc. has the sole power to vote or direct the voting of the shares owned. Various persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the shares of our common stock held by BlackRock, Inc. The address of BlackRock, Inc. is 40 East 52nd Street, New York, NY 10022.
- (8) Includes 3,500 shares of our common stock held in a trust, of which Dr. Ausiello's spouse is the trustee.

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- (9) Includes shares of our common stock contributed by Alnylam to our 401(k) plan for the benefit of our named executive officers as of March 31, 2013: Dr. Maraganore, 2,441 shares; Mr. Greene, 2,312 shares; Dr. Vaishnaw, 2,395 shares; Dr. Reid, 1,507 shares; and Mr. Mason, 1,741 shares.
- (10) Includes shares of our common stock held by the Paul Schimmel Prototype PSP, of which Dr. Schimmel is the trustee and over which he has sole investment and voting power.
- (11) Includes shares of our common stock held by the Phillip A. Sharp 2009 Grantor Retained Annuity Trust, of which Dr. Sharp is the trustee and over which he has sole investment and voting power.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires our directors, executive officers and the holders of more than 10% of our common stock to file with the SEC initial reports of ownership of our common stock and other equity securities on a Form 3 and reports of changes in such ownership on a Form 4 or Form 5. Officers, directors and 10% stockholders are required by SEC regulations to furnish us with copies of all Section 16(a) forms they file. Based solely on a review of our records and written representations by the persons required to file these reports, we believe that all such persons complied on a timely basis with the filing requirements of Section 16(a) during the fiscal year ended December 31, 2012.

PROPOSAL 1 ELECTION OF CLASS III DIRECTORS

We have three classes of directors, Class I, Class II and Class III, and the board has set the number of directors at nine. At each annual meeting, directors are elected for a term of three years to succeed those whose terms are expiring. The directors are divided as equally as possible among the three classes, and the terms of the three classes are staggered so that only one class is elected by stockholders annually.

At the annual meeting, we are proposing the election of three Class III directors to hold office until the annual meeting of stockholders to be held in 2016, or until their respective successors have been duly elected and qualified. Upon the recommendation of the nominating and corporate governance committee of our board, the board has nominated Victor J. Dzau, M.D., Steven M. Paul, M.D. and Kevin P. Starr for election to the board of directors as Class III directors. Drs. Dzau and Paul and Mr. Starr are currently serving as Class III directors. Dr. Dzau has served as a director since 2007, Dr. Paul has served as a director since 2010 and Mr. Starr has served as a director since 2003. The Class III directors elected at this year's annual meeting will serve as members of our board until the 2016 annual meeting of stockholders, or until their respective successors are elected and qualified.

The persons named in the enclosed proxy will vote to elect Drs. Dzau and Paul and Mr. Starr as Class III directors unless the proxy is marked otherwise. Drs. Dzau and Paul and Mr. Starr have indicated their willingness to serve on our board, but if any nominee should be unwilling or unable to serve, the person acting under the proxy may vote the proxy for a substitute nominee designated by our board, unless the board reduces the number of directors accordingly.

Board Recommendation

Our board of directors recommends a vote FOR the election of each of Dr. Dzau, Dr. Paul and Mr. Starr as a Class III director.

Set forth below for each director, including the Class III director nominees, Drs. Dzau and Paul and Mr. Starr, is information as of February 15, 2013 with respect to his or her (a) name and age, (b) positions and offices at Alnylam, if any, (c) principal occupation and business experience during at least the past five years, (d) directorships, if any, of other publicly-held companies, held currently or during the past five years, and (e) the year such person became a member of our board of directors. The duration of an individual's service on our board or as an officer described below includes service on the board of directors or as an officer of our predecessor company, which was also known as Alnylam Pharmaceuticals, Inc.

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We have also included information below regarding each director's specific experience, qualifications, attributes and skills that led the nominating and corporate governance committee and our board of directors to the conclusion that he or she should serve as a director in light of our business and structure. Our board has determined that each director serving on our board of directors, with the exception of Drs. Sharp and Maraganore, is independent within the meaning of the director independence standards of The NASDAQ Global Market. There are no family relationships among any of our directors or executive officers.

Name	Age	Director Since	Principal Occupation, Other Business Experience and Other Directorships During the Past Five Years, and Other Specific Experience, Qualifications, Attributes and Skills
Class III directors, nominees to be elected at the 2013 annual meeting (terms expiring in 2016)			
Victor J. Dzau, M.D.	67	2007	<p>Dr. Dzau has served as a member of our board of directors since April 2007. Dr. Dzau has served as Chancellor for Health Affairs at Duke University and President and Chief Executive Officer of the Duke University Health System since July 2004. From July 1996 to September 2004, he was the Hersey Professor of Theory and Practice of Medicine at Harvard Medical School and Chair of the Department of Medicine, Physician in Chief and Director of Research at Brigham and Women's Hospital. He is a former Chairman of the National Institutes of Health (NIH) Cardiovascular Disease Advisory Committee and served on the Advisory Committee to the Director of the NIH. He is a member of the Institute of Medicine. He also serves as a director of Duke University Health System, Medtronic, Inc. and PepsiCo, Inc., and formerly served as a director of Genzyme Corporation.</p>
<i>Nominating and Corporate</i>			
<i>Governance Committee</i>			
<i>Science and Technology</i>			
<i>Committee</i>			

Dr. Dzau brings to our board extensive experience in the medical field, both in the hospital, as a practicing physician, and the academic research settings. As the President and Chief Executive Officer of the Duke University Health System, Dr. Dzau has a deep understanding of health care providers and of physicians, who are key opinion leaders and partners to Alnylam as we continue to advance our clinical development pipeline and initiate additional clinical trials.

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Name	Age	Director Since	Principal Occupation, Other Business Experience and Other Directorships During the Past Five Years, and Other Specific Experience, Qualifications, Attributes and Skills
Steven M. Paul, M.D. <i>Compensation Committee (Chair)</i> <i>Science and Technology Committee</i>	62	2010	<p>Dr. Paul has served as a member of our board of directors since September 2010. Dr. Paul is the Director of the Appel Alzheimer's Disease Research Institute and a Professor of Neurology (Neuroscience), Psychiatry and Pharmacology at Weill Cornell Medical College of Cornell University. Dr. Paul served for 17 years at Eli Lilly and Company, a pharmaceutical company, most recently as the Executive Vice President for Science and Technology and President of the Lilly Research Laboratories, a division of Eli Lilly and Company, from July 2003 to his retirement in February 2010. He is a member of the Institute of Medicine of the National Academy of Sciences and a Fellow of the American Association for the Advancement of Science. Prior to joining Lilly, Dr. Paul served in several senior roles at the National Institute of Mental Health, including serving as the Scientific Director of the Intramural Research Program. Dr. Paul also serves as a director of the Sigma-Aldrich Corporation and the Foundation of the National Institutes of Health, and is a Venture Partner at Third Rock Ventures, a venture capital firm.</p> <p>Dr. Paul brings to our board more than 17 years of management experience in the pharmaceutical industry and 35 years of scientific research experience. He is widely recognized as a leader across many dimensions of medical research and drug development, and this expertise is important to our board as we continue to advance our clinical development pipeline and initiate additional clinical trials.</p>
Kevin P. Starr <i>Audit Committee (Chair)</i> <i>Compensation Committee</i>	50	2003	<p>Mr. Starr has served as a member of our board of directors since September 2003. Since April 2007, Mr. Starr has been a Partner of Third Rock Ventures, a venture capital firm. From January 2003 to March 2007, Mr. Starr was an entrepreneur. From December 2001 to December 2002, Mr. Starr served as Chief Operating Officer of Millennium Pharmaceuticals, Inc. (now a wholly-owned subsidiary of Takeda Pharmaceutical Company Limited), a biopharmaceutical company. He also served as Millennium's Chief Financial Officer from December 1998 to December 2002.</p>

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Name	Age	Director Since	Principal Occupation, Other Business Experience and Other Directorships During the Past Five Years, and Other Specific Experience, Qualifications, Attributes and Skills
			<p>Mr. Starr is a proven operational leader who brings to our board over 25 years of experience building and leading biotechnology companies. Mr. Starr's background includes executive management roles with responsibility over key financial and business planning functions, including extensive experience in the oversight of financial audits, the design and implementation of financial controls, and corporate governance best practices. In addition, as an entrepreneur and venture capitalist, Mr. Starr has focused on the formation, development and business strategy of multiple start-up companies. Mr. Starr's depth and breadth of financial expertise and his experience handling complex financial and business issues also position him well to serve as chair and financial expert of our audit committee.</p>
Class I directors (terms expiring in 2014)			
John M. Maraganore, Ph.D.	50	2002	<p>Dr. Maraganore has served as our Chief Executive Officer and as a member of our board of directors since December 2002. Dr. Maraganore also served as our President from December 2002 to December 2007. From April 2000 to December 2002, Dr. Maraganore served as Senior Vice President, Strategic Product Development for Millennium Pharmaceuticals, Inc. (now a wholly-owned subsidiary of Takeda Pharmaceutical Company Limited), a biopharmaceutical company. He also serves as a director of Regulus Therapeutics Inc. and the Biotechnology Industry Organization.</p> <p>Dr. Maraganore has over 25 years of experience in the biotechnology industry, bringing to our board critical scientific, research and development, and general management expertise. In prior roles, Dr. Maraganore has led the research, development and FDA approval and commercialization of important drug therapies, including Angiomax[®], an anticoagulant for patients undergoing coronary angioplasty procedures, of which Dr. Maraganore was an inventor. As a founder and leader of new businesses, he has developed high-performing organizations and created shareholder value while focusing on leading-edge scientific research. A true visionary, strategist and innovator, Dr. Maraganore's broad experience and personal passion bring an invaluable perspective to our board.</p>

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Principal Occupation, Other Business Experience			
Name	Age	Director Since	and Other Directorships During the Past Five Years, and Other Specific Experience, Qualifications, Attributes and Skills
Paul R. Schimmel, Ph.D. <i>Compensation Committee</i> <i>Science and Technology Committee</i>	72	2002	<p>Dr. Schimmel is a scientific founder of Alnylam and has served as a member of our board of directors since June 2002. Dr. Schimmel has been the Ernest and Jean Hahn Professor of Molecular Biology and Chemistry and a member of the Skaggs Institute for Chemical Biology at the Scripps Research Institute since 1997. Dr. Schimmel is a member of the National Academy of Sciences, the Institute of Medicine and the American Academy of Arts and Sciences.</p> <p>Dr. Schimmel is a noted academic scholar, and his knowledge and experience offer a critical scientific perspective to our board. Dr. Schimmel has authored or co-authored more than 450 scientific papers, and has been active in many scientific and academic organizations and committees. Having a longstanding interest in the applications of basic biomedical research to human health, Dr. Schimmel holds several patents and is a co-founder or founding director of a number of biotechnology companies, of which six, including Alnylam, became publicly traded. As one of our scientific founders, Dr. Schimmel's insight and scientific expertise are invaluable assets to our board when evaluating our strategy and unique challenges as one of the first companies focused on the discovery and development of therapeutics based on RNA interference, or RNAi.</p>
Phillip A. Sharp, Ph.D. <i>Science and Technology Committee (Chair)</i>	68	2002	<p>Dr. Sharp is a scientific founder of Alnylam and has served as a member of our board of directors since June 2002. Dr. Sharp is an Institute Professor at the David H. Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology (MIT), and was the Founding Director of the McGovern Institute for Brain Research at MIT. Dr. Sharp has been a professor at MIT since 1974. He is a member of the National Academy of Sciences, the Institute of Medicine and American Academy of Arts and Sciences. Dr. Sharp also formerly served as a director of Biogen, Inc. (now Biogen Idec Inc.), a biotechnology company, which he co-founded in 1978.</p>

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Name	Age	Director Since	Principal Occupation, Other Business Experience and Other Directorships During the Past Five Years, and Other Specific Experience, Qualifications, Attributes and Skills
			<p>Dr. Sharp, a leading researcher in molecular biology and biochemistry, brings to our board a fundamental understanding of the core scientific principles of our business. Dr. Sharp received the Nobel Prize for Physiology or Medicine in 1993, received numerous awards and honorary degrees for his scientific work, and served on many advisory boards for the government, academic institutions, scientific societies and companies. Dr. Sharp has strategic expertise based upon his role as a co-founder and former director of Biogen Idec Inc. As one of our scientific founders, Dr. Sharp's insight and scientific expertise are invaluable assets to our board when evaluating our strategy and unique challenges as one of the first companies focused on the discovery and development of RNAi therapeutics, and he is uniquely qualified to serve as the chair of our science and technology committee.</p>

Class II directors (terms expiring in 2015)

<p>Dennis A. Ausiello, M.D.</p> <p><i>Nominating and Corporate Governance Committee</i></p> <p><i>Science and Technology Committee</i></p>	67	2012	<p>Dr. Ausiello has served as a member of our board of directors since April 2012. Dr. Ausiello serves as the Jackson Professor of Clinical Medicine at Harvard Medical School and has served as the Chief of Medicine at Massachusetts General Hospital since 1996. Dr. Ausiello was the President of the Association of American Physicians in 2006. He is a member of the Institute of Medicine of the National Academy of Sciences and a fellow of the American Academy of Arts and Sciences. He also serves as a director of Pfizer Inc.</p> <p>Dr. Ausiello's experience as a practicing physician, a scientist and a nationally recognized leader in academic medicine enable him to bring valuable insights to our board of directors, particularly as we advance our clinical development pipeline and initiate additional clinical trials. In addition, Dr. Ausiello oversees a large research portfolio and an extensive research and education budget at Massachusetts General Hospital, giving him a valuable perspective on drug discovery and development. Through his work as the Chief of Medicine at Massachusetts General Hospital, Dr. Ausiello also brings leadership, oversight and finance experience to our board of directors.</p>
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			Principal Occupation, Other Business Experience and Other Directorships During the Past Five Years, and Other Specific Experience, Qualifications, Attributes and Skills
Name	Age	Director Since	
John K. Clarke	59	2002	Mr. Clarke is a founder of Alnylam and has served as the chairman of our board of directors since June 2002. Since founding Cardinal Partners, a venture capital firm focused on healthcare, in 1997, Mr. Clarke has served as its Managing General Partner. Mr. Clarke also serves as a director of Momenta Pharmaceuticals, Inc. and Verastem, Inc., and formerly served as a director of Sirtris Pharmaceuticals, Inc. and Visicu, Inc.
<i>Chairman of the Board</i>			
<i>Audit Committee</i>			
<i>Nominating and Corporate Governance Committee (Chair)</i>			Mr. Clarke has over 29 years of experience as a venture capitalist in the life sciences and healthcare industries, bringing a deep understanding to our board of the challenges of building a successful biotechnology company. He co-founded and served as interim chief executive officer of numerous successful private and publicly traded biotechnology companies. Mr. Clarke has a keen understanding of the interplay between management and the board and is well-versed in the current best practices in corporate governance, making him well-suited to serve as the chairman of our board and chair of our nominating and corporate governance committee.
Marsha H. Fanucci	59	2010	Ms. Fanucci has served as a member of our board of directors since December 2010. Ms. Fanucci served as Senior Vice President and Chief Financial Officer of Millennium Pharmaceuticals, Inc. (now a wholly-owned subsidiary of Takeda Pharmaceutical Company Limited), a biopharmaceutical company, from July 2004 to January 2009. While at Millennium, she also served as Vice President, Finance and Corporate Strategy from July 2003 to June 2004, and prior to that as Vice President of Corporate Development from 2000. Prior to joining Millennium, Ms. Fanucci served as Vice President of Corporate Development and Strategy at Genzyme Corporation, a biotechnology company, from 1998 to 2000. Ms. Fanucci also serves as a director of Ironwood Pharmaceuticals, Inc. and Momenta Pharmaceuticals, Inc.
<i>Audit Committee</i>			Ms. Fanucci has demonstrated an expertise with respect to public company and financial accounting matters, including over 24 years of leadership and consulting experience in biotechnology and healthcare companies. Her leadership in the areas of corporate strategy, financial planning and reporting, and operations, are an asset to our board, and in particular, our audit committee, as we continue to grow our company, advance our clinical development pipeline and partner additional programs and technologies.

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CORPORATE GOVERNANCE

General

We believe that good corporate governance is important to ensure that Alnylam is managed for the long-term benefit of our stockholders. This section describes key corporate governance practices that we have adopted.

We have adopted a code of business conduct and ethics, which applies to all of our officers, directors and employees, as well as charters for our audit committee, our compensation committee, our nominating and corporate governance committee, and our science and technology committee. We have also adopted corporate governance guidelines. We have posted copies of these documents on the Corporate Governance page of the Investors section of our website, www.alnylam.com. We intend to disclose on our website any amendments to, or waivers from, our code of business conduct and ethics required to be disclosed by law or NASDAQ Global Market listing standards.

Corporate Governance Guidelines

Our board of directors has adopted corporate governance guidelines to assist in the exercise of its duties and responsibilities and to serve the best interests of Alnylam and our stockholders. These guidelines, which provide a framework for the conduct of our board of directors' business, provide that:

our board's principal responsibility is to oversee the management of Alnylam;

a majority of the members of our board shall be independent directors;

the independent directors meet regularly in executive session;

directors have full and free access to management and, as necessary and appropriate, independent advisors; and

periodically, our board and its committees will conduct a self-evaluation to determine whether they are functioning effectively. We have posted a copy of our corporate governance guidelines on the Corporate Governance page of the Investors section of our website, www.alnylam.com.

Board Determination of Independence

Under the NASDAQ Marketplace Rules, a director will qualify as an independent director if, in the opinion of our board, that person does not have a relationship that would interfere with the exercise of independent judgment in carrying out the responsibilities of a director. Our board has determined that none of Ms. Fannuci, Drs. Ausiello, Dzau, Paul and Schimmel and Messrs. Clarke and Starr have a relationship which would interfere with the exercise of independent judgment in carrying out the responsibilities of a director and that each of these directors is an independent director as defined under NASDAQ Rule 5605(a)(2). Furthermore, the board has determined that each member of our audit committee, compensation committee and nominating and corporate governance committee is independent within the meaning of the applicable director independence standards of the NASDAQ Global Market and the Exchange Act. In making such determination, our board considered relationships, if any, that each non-employee director or family member of such director has with Alnylam, their beneficial ownership of our outstanding common stock and other facts and circumstances our board deemed relevant in determining their independence.

Role of the Board

Our business is managed under the direction of the board of directors. Management has primary responsibility for the day-to-day operations and affairs of our company and the role of our board is to provide independent oversight of management on behalf of our stockholders. In its oversight role, our board, as a whole and through its committees, is responsible for establishing broad corporate policies and reviewing our

overall

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performance. Our board selects, evaluates and provides for the succession of executive officers and, subject to stockholder election, directors. It reviews and approves corporate objectives and strategies, and evaluates significant policies and proposed major commitments of corporate resources. Our board also participates in decisions that have a potential major economic impact on our company. Management keeps our directors informed of company activity through regular communication, including written reports and presentations at board of directors and committee meetings.

Board Leadership Structure

Our board has determined that the roles of chief executive officer and chairman of the board should be separated at the current time. Mr. Clarke, an independent director, has served as our chairman since the founding of Alnylam in 2002, and Dr. Maraganore has served as our chief executive officer and a director since 2002. Separating these positions allows our chief executive officer to focus on our day-to-day business operations, while allowing the chairman to lead the board in its fundamental role of providing advice to and independent oversight of management. The board recognizes the time, effort and energy that the chief executive officer is required to devote to his position in the current business environment, as well as the commitment required to serve as our chairman, particularly as the board's oversight responsibilities continue to grow. While our bylaws and corporate governance guidelines do not require that our chairman and chief executive officer positions be separate, our board believes that our current leadership structure is appropriate because it provides an effective balance between strategy development and independent leadership and management oversight.

The Board's Role in Risk Oversight

We face a number of risks in our business, including risks related to: pre-clinical and clinical research and development; manufacturing; regulatory reviews, approvals and oversight; intellectual property filings, prosecution, maintenance and challenges; the establishment and maintenance of strategic alliances; competition; litigation; and the ability to access additional funding for our business; as well as other risks. Our management is responsible for the day-to-day management of the risks that we face, while our board of directors, as a whole and through its committees, has responsibility for the oversight of risk management.

Our board administers its risk oversight function directly and through its four committees. Our chairman meets regularly with our chief executive officer and other executive officers to discuss strategy and risks facing the company. Members of senior management attend the quarterly board meetings and are available to address any questions or concerns raised by the board on risk management-related and any other matters. Each quarter, the board of directors receives presentations from members of senior management on strategic matters involving our business. In addition, as part of its charter, the audit committee regularly discusses with management our risk exposures in the areas of financial reporting, internal controls and compliance with legal and financial regulatory requirements, their potential impact on our company and the steps we take to manage them. The compensation committee assists the board in fulfilling its oversight responsibilities with respect to the management of risks arising from our compensation policies and programs. The nominating and governance committee assists the board in fulfilling its oversight responsibilities with respect to the management of risks associated with board organization, membership and structure, succession planning for our directors and executive officers, and corporate governance. The science and technology committee reviews and advises the board regarding risks arising from our scientific research and discovery strategy and programs, and our regulatory compliance and quality programs.

Board of Directors Meetings and Attendance

Our board met ten times during 2012, either in person or by teleconference. During 2012, each of our directors attended at least 75% of the aggregate number of board meetings and meetings of the committees on which he or she then served, except Dr. Ausiello, who attended a majority of the meetings of the board and the committees on which he served. Dr. Ausiello's absence was due to other commitments that were pre-existing at the time the Alnylam meetings were scheduled.

Our directors are expected to attend the annual meeting of stockholders. All but one of our directors attended the 2012 annual meeting of stockholders.

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Board Committees

Our board of directors has established four standing committees – audit, compensation, nominating and corporate governance, and science and technology – each of which operates under a written charter that has been approved by our board. We have posted copies of each committee’s charter on the Corporate Governance page of the Investors section of our website, www.alnylam.com. The members of each committee are appointed by our board, upon the recommendation of our nominating and corporate governance committee.

Our board has determined that all of the members of each of the audit, compensation and nominating and corporate governance committees are independent as defined under the NASDAQ Marketplace rules, and, in the case of all members of our audit committee, the independence requirements of Rule 10A-3 under the Exchange Act. Current committee memberships are shown in the table below:

Audit Committee

As described more fully in its charter, the audit committee oversees our accounting and financial reporting processes, internal controls and audit functions. In fulfilling its role, our audit committee is responsible for, among other things:

appointing, evaluating, retaining, approving the compensation of and, when necessary, terminating the engagement of our independent auditors;

taking appropriate action, or recommending that our board of directors take appropriate action, to oversee the independence of our independent auditors;

reviewing and discussing with management and the independent auditors our annual and quarterly financial statements and related disclosures;

monitoring our internal control over financial reporting, disclosure controls and procedures, and code of business conduct and ethics;

reviewing and discussing our financial risk management policies;

establishing policies regarding hiring employees from our independent auditors and procedures for the receipt and retention of accounting-related complaints and concerns;

meeting independently with our independent auditors and management; and

preparing the annual audit committee report required by SEC rules, which is included below under the heading Report of the Audit Committee.

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In addition, our audit committee must approve or ratify any related party transaction entered into by us. Our policies and procedures for the review and approval of related person transactions are summarized under the heading Policies and Procedures for Related Person Transactions, which appears below.

The members of our audit committee are Messrs. Starr (Chair) and Clarke and Ms. Fanucci. We believe that each member of our audit committee satisfies the requirements for membership, including independence, under the NASDAQ Marketplace Rules and Rule 10A-3(b)(1) under the Exchange Act. Our board has determined that Mr. Starr is an audit committee financial expert as defined in Item 407(d)(5) of Regulation S-K. No member of our audit committee is the beneficial owner of more than 10% of our common stock.

Our audit committee met four times during 2012, either in person or by teleconference.

Compensation Committee

Our compensation committee's responsibilities include, among other things:

annually reviewing and approving corporate goals and objectives relevant to the compensation of our executive officers;

reviewing and approving, or making recommendations to our board with respect to, the compensation of our chief executive officer and other executive officers;

overseeing an evaluation of our senior executives;

overseeing and administering our stock-based compensation plans and 401(k) plan, and performing the duties imposed on the compensation committee by the terms of those plans;

reviewing and making recommendations to our board with respect to director compensation;

reviewing, and amending as necessary, our compensation philosophy and objectives;

reviewing and discussing annually with management our Compensation Discussion and Analysis, which is included beginning on page 25 of this proxy statement; and

preparing the annual compensation committee report required by SEC rules, which is included immediately following the Compensation Discussion and Analysis section appearing below.

The processes and procedures followed by our compensation committee in considering and determining executive compensation is described below under the heading Compensation Discussion and Analysis.

The members of our compensation committee are Drs. Paul (Chair) and Schimmel and Mr. Starr. We believe that each member of our compensation committee is an independent director within the meaning of the director independence standards of the NASDAQ Marketplace Rules, a non-employee director as defined in Rule 16b-3 of the Exchange Act, and an outside director pursuant to Section 162(m) of the Internal Revenue Code.

Our compensation committee met five times during 2012, either in person or by teleconference.

Compensation Committee Interlocks and Insider Participation

During fiscal year 2012, none of the members of our compensation committee was a current or former officer or employee of Alnylam and none had any related person transaction involving Alnylam.

During fiscal year 2012, no executive officer of our company served as: (i) a member of the compensation committee (or other committee of the board of directors performing equivalent functions or, in the absence of any such committee, the entire board of directors) of another entity, one of whose executive officers served on our compensation committee; (ii) a director of another entity, one of whose executive officers served on our compensation committee; or (iii) a member of the compensation committee (or other committee of the board of directors performing equivalent functions or, in the absence of any such committee, the entire board of directors) of another entity, one of whose executive officers served as a director of our company.

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Risk Considerations in Executive Compensation

Our compensation committee has discussed the concept of risk as it relates to our executive compensation program and our compensation committee does not believe our executive compensation program encourages excessive or inappropriate risk taking. As described more fully below in Compensation Discussion and Analysis, we structure our pay to consist of both fixed and variable compensation to motivate our executives to produce superior short- and long-term results that are in the best interests of our company and stockholders in order to attain our ultimate objective of increasing stockholder value. We believe that any risks that may arise from our compensation policies and practices for our employees are not reasonably likely to have a material adverse effect on our company.

Nominating and Corporate Governance Committee

Our nominating and corporate governance committee is responsible for, among other things:

identifying individuals qualified to become members of our board;

recommending to our board the persons to be nominated for election as directors and the persons to be appointed to each of our board committees;

reviewing and making recommendations to our board with respect to management succession planning;

developing and recommending to our board a set of corporate governance principles; and

overseeing the evaluation of our board.

The processes and procedures followed by our nominating and corporate governance committee in identifying and evaluating director candidates are described below under the heading Director Nomination Process.

The members of our nominating and corporate governance committee are Mr. Clarke (Chair) and Drs. Ausiello and Dzau. Dr. Ausiello joined our Board in April 2012 and was appointed as a member of our nominating and corporate governance committee in June 2012. We believe that each member of our nominating and corporate governance committee satisfies the requirements for membership, including independence, as established under the NASDAQ Marketplace Rules.

Our nominating and corporate governance committee met four times during 2012, either in person or by teleconference.

Science and Technology Committee

Our science and technology committee is responsible for, among other things:

overseeing our scientific advisory board;

reviewing our overall scientific and research and development strategy;

reviewing our research and development programs;

reviewing our regulatory compliance and quality programs;

reviewing cognate external scientific research, discoveries and commercial developments, as appropriate; and

reviewing our overall intellectual property strategies.

The members of our science and technology committee are Drs. Sharp (Chair), Ausiello, Dzau, Paul and Schimmel. Dr. Ausiello joined our Board in April 2012 and was appointed as a member of our science and technology committee in June 2012. Our science and technology committee met four times during 2012, either in person or by teleconference.

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Director Nomination Process

Our nominating and corporate governance committee is responsible for identifying individuals qualified to become directors, consistent with criteria approved by our board, and recommending the persons to be nominated for election as directors.

The process followed by our nominating and corporate governance committee to identify and evaluate director candidates includes requests to board members and others for recommendations, meetings from time to time to evaluate biographical information and background material relating to potential candidates and interviews of selected candidates by members of the committee and our board.

Criteria and Diversity

Our corporate governance guidelines specify that diversity on the board should be considered by the nominating and corporate governance committee in the director identification and nomination process. In considering whether to recommend any particular candidate for inclusion in our board's slate of recommended director nominees, our nominating and corporate governance committee will apply certain criteria, including the candidate's integrity, business acumen, knowledge of our business and industry, experience, diligence, conflicts of interest and ability to act in the interests of all stockholders. Our nominating and corporate governance committee also considers issues of diversity, such as diversity of gender, race and national origin, education, professional experience and differences in viewpoints and skills. While our nominating and corporate governance committee does not have a formal policy with respect to diversity, our board and nominating and corporate governance committee believe that it is essential that the board members represent diverse viewpoints. The committee does not assign specific weights to particular criteria and no particular criterion is a prerequisite for each prospective nominee. We believe that the backgrounds and qualifications of our directors, considered as a group, should provide a composite mix of experience, knowledge and abilities that will allow our board to promote our strategic objectives and fulfill its responsibilities to our stockholders.

The director nominee biographies appearing above under Proposal 1 Election of Class III Directors indicate each nominee's experience, qualifications, attributes and skills that led our nominating and corporate governance committee and board to conclude that he or she should continue to serve as a member of our board. Our nominating and corporate governance committee and board believe that each of the nominees has had substantial achievement in his or her professional and personal pursuits, and possesses the background, talents and experience that our board desires and that will contribute to the best interests of our company and to long-term stockholder value.

Stockholder Nominations

Stockholders may recommend individuals to our nominating and corporate governance committee for consideration as potential director candidates by submitting their names, together with appropriate biographical information and background materials and, if the stockholder is not a stockholder of record, a statement as to whether the stockholder or group of stockholders making the recommendation has beneficially owned more than 5% of our common stock for at least a year as of the date such recommendation is made, to the Nominating and Corporate Governance Committee, c/o Corporate Secretary, Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts 02142. Assuming that appropriate biographical and background material has been provided on a timely basis, the committee will evaluate stockholder-recommended candidates by following substantially the same process, and applying substantially the same criteria, as it follows for candidates submitted by others. Stockholders also have the right under our bylaws to nominate director candidates directly, without any action or recommendation on the part of the committee or the board, by following the procedures set forth below under the heading Stockholder Proposals.

At the annual meeting, stockholders will be asked to consider the election of Drs. Dzau and Paul and Mr. Starr as Class III directors, each of whom currently serves on our board of directors. Drs. Dzau and Paul and Mr. Starr were proposed to our board by our nominating and corporate governance committee and our board determined to include them as its nominees.

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Communicating with the Independent Directors

Our board of directors will give appropriate attention to written communications that are submitted by stockholders, and will respond if and as appropriate. The chair of our board (if an independent director), the lead director (if one is appointed), or otherwise the chair of our nominating and corporate governance committee, is primarily responsible for monitoring communications from stockholders and for providing copies or summaries to the other directors as he or she considers appropriate.

Communications are forwarded to all directors if they relate to important substantive matters and include suggestions or comments that the chair of our board (if an independent director), or the lead director (if one is appointed), or otherwise the chair of our nominating and corporate governance committee, considers to be important for the directors to know. In general, communications relating to corporate governance and long-term corporate strategy are more likely to be forwarded than communications relating to ordinary business affairs, personal grievances and matters as to which we tend to receive repetitive communications.

Stockholders who wish to send communications on any topic to our board should address such communications to the Board of Directors, c/o Corporate Secretary, Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts 02142.

Report of the Audit Committee

Our audit committee reports to and acts on behalf of our board by providing oversight of our financial management, related person transaction policies and procedures, audits of our financial statements and financial reporting controls and accounting policies and procedures. Our management is responsible for the preparation, presentation and integrity of our financial statements, the appropriateness of our accounting principles and reporting policies, and for establishing and maintaining adequate internal control over financial reporting. The independent registered public accounting firm is responsible for conducting an independent audit of our annual financial statements and our internal control over financial reporting. Our audit committee is responsible for independently overseeing the conduct of these activities by our management and our independent registered public accounting firm.

Our audit committee operates under a written charter adopted by our board that reflects standards contained in the NASDAQ Marketplace Rules. Our audit committee reviews its charter annually. A complete copy of the current audit committee charter is posted on the Corporate Governance page of the Investors section of our website, www.alnylam.com.

Our audit committee has reviewed our audited financial statements for the fiscal year ended December 31, 2012, and has discussed them with our management and our independent registered public accounting firm, PricewaterhouseCoopers LLP. Our audit committee has also received from, and discussed with, PricewaterhouseCoopers LLP various communications that PricewaterhouseCoopers LLP is required to provide to our audit committee, including the matters required to be discussed by the Public Company Accounting Oversight Board, or PCAOB, AU Section 380, *Communication with Audit Committees*, as amended, which requires the independent registered public accounting firm to provide the audit committee with additional information regarding the scope and results of the audit, including the independent registered public accounting firm's responsibilities under PCAOB standards, significant issues or disagreements concerning our accounting practices or financial statements, significant accounting policies, significant accounting adjustments, alternative accounting treatments, accounting for significant unusual transactions, and estimates, judgments and uncertainties.

In addition, PricewaterhouseCoopers LLP provided our audit committee with the written disclosures and the letter required by PCAOB Rule 3526, *Communication with Audit Committees Concerning Independence*, as amended, and our audit committee and PricewaterhouseCoopers LLP have discussed its independence from us and our management, including the matters in those written disclosures.

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In this context, our audit committee meets regularly with PricewaterhouseCoopers LLP and our management (including private sessions with each of PricewaterhouseCoopers LLP and members of management) to discuss any matters that our audit committee or these individuals believe should be discussed. Our audit committee conducts a meeting each quarter to review the financial statements prior to the public release of earnings.

Based on its discussions with management and PricewaterhouseCoopers LLP, and its review of the representations and information provided by management and PricewaterhouseCoopers LLP, our audit committee recommended to our board that the audited financial statements be included in our Annual Report on Form 10-K for the year ended December 31, 2012. Our audit committee also recommended to our board, and our board has approved, subject to stockholder ratification, the appointment of PricewaterhouseCoopers LLP as our independent auditors for the fiscal year ending December 31, 2013.

By the audit committee of the board of directors of Alnylam,

Kevin P. Starr, Chair

John K. Clarke

Marsha H. Fanucci

Principal Accountant Fees and Services

The following table summarizes the fees that our independent auditors, PricewaterhouseCoopers LLP, an independent registered public accounting firm, billed to us for each of the last two fiscal years for audit and other services:

Fee Category	2012	2011
Audit Fees(1)	\$ 659,000	\$ 488,500
Audit-Related Fees(2)		
Tax Fees(3)	2,500	86,210
All Other Fees(4)	1,800	1,620
Total Fees	\$ 663,300	\$ 576,330

- (1) Audit Fees consist of fees for the audit of our annual financial statements, the review of the interim financial statements included in our quarterly reports on Form 10-Q and other professional services provided in connection with regulatory filings or audit engagements. In 2012, this amount also includes \$90,000 for a comfort letter and associated fees in connection with our equity offerings, as well as \$129,000 billed for accounting consultations. In 2011, this amount also includes \$58,500 billed for accounting consultations.
- (2) The amounts previously reported in this fee category for 2011 have been reclassified to conform to the 2012 presentation.
- (3) Tax Fees consist of fees for an amended tax return in 2012 and tax consultations in 2011 for an audit by the Internal Revenue Service for the 2008 and 2009 tax years.
- (4) All Other Fees represent payment for access to the PricewaterhouseCoopers LLP on-line accounting research database. All such accountant services and fees were pre-approved by our audit committee in accordance with the Pre-Approval Policies and Procedures described below.

Pre-Approval Policies and Procedures

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Our audit committee is required to pre-approve all audit services to be provided to us by our principal independent auditors, as well as all other services to be provided to us by such independent auditors, except that de minimis non-audit services may be approved in accordance with applicable SEC rules.

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CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

Policies and Procedures for Related Person Transactions

Our board has adopted written policies and procedures for the review of any transaction, arrangement or relationship in which Alnylam is a participant, the amount involved exceeds \$120,000, and one of our executive officers, directors, director nominees or 5% stockholders (or their immediate family members), each of whom we refer to as a related person, has a direct or indirect material interest.

If a related person proposes to enter into such a transaction, arrangement or relationship, which we refer to as a related person transaction, the related person must report the proposed related person transaction to our chief legal officer. The policy calls for the proposed related person transaction to be reviewed by our chief legal officer and, if deemed appropriate, approved by our audit committee. Whenever practicable, the reporting, review and approval will occur prior to entry into the transaction. If advance review and approval is not practicable, our audit committee will review, and, in its discretion, may ratify the related person transaction. The policy also permits the chair of our audit committee to review and, if deemed appropriate, approve proposed related person transactions that arise between committee meetings, subject to ratification by our audit committee at its next meeting. Any related person transactions that are ongoing in nature will be reviewed annually.

A related person transaction reviewed under the policy will be considered approved or ratified if it is authorized by our audit committee after full disclosure of the related person's interest in the transaction. As appropriate for the circumstances, our audit committee will review and consider:

the related person's interest in the related person transaction;

the approximate dollar value of the amount involved in the related person transaction;

the approximate dollar value of the amount of the related person's interest in the transaction without regard to the amount of any profit or loss;

whether the transaction was undertaken in the ordinary course of our business;

whether the terms of the transaction are no less favorable to us than terms that could have been reached with an unrelated third party;

the purpose of, and the potential benefits to us of, the transaction; and

any other information regarding the related person transaction or the related person in the context of the proposed transaction that would be material to investors in light of the circumstances of the particular transaction.

Our audit committee may approve or ratify the transaction if the committee determines that, under all of the circumstances, the transaction is not inconsistent with our best interests. Our audit committee may impose any conditions on the related person transaction that it deems appropriate.

In addition to related person transactions that are excluded by the instructions to the SEC's related person transaction disclosure rule, our board has determined that the following transactions do not create a material direct or indirect interest on behalf of related persons and, therefore, are not related person transactions for purposes of this policy:

interests arising solely from the related person's position as an executive officer of another entity (whether or not the person is also a director of such entity), that is a participant in the transaction, where (a) the related person and all other related persons own in the

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aggregate less than a 10% equity interest in such entity, and (b) the related person and his or her immediate family members are not involved in the negotiation of the terms of the transaction and do not receive any special benefits as a result of the transaction; and

a transaction that is specifically contemplated by provisions of our charter or bylaws.

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The policy provides that transactions involving the compensation of our executive officers shall be reviewed and approved by our compensation committee in the manner specified in its charter.

Related Person Transactions

Agreements with Novartis

Beginning in September 2005, we entered into the first of two strategic alliances with Novartis Pharma AG and its affiliate, Novartis Institutes for Biomedical Research, Inc., whom we refer to together as Novartis. At that time, we and Novartis executed a stock purchase agreement and an investor rights agreement, and ultimately executed a research collaboration and license agreement. The investor rights agreement provided Novartis with the right, subject to certain exceptions, generally to maintain its ownership percentage in us until the earlier of any sale by Novartis of shares of our common stock and the expiration or termination of the collaboration and license agreement. Under the terms of the investor rights agreement, we also granted Novartis demand and piggyback registration rights under the Securities Act of 1933, as amended, for the shares of our common stock held by Novartis. In September 2012, Novartis sold 1,551,896 shares of our common stock, which resulted in the loss of Novartis' existing demand and piggyback registration rights, as well as its subscription rights, under the investor rights agreement.

Concurrent with the sale by Novartis of such shares of our common stock, we and Novartis entered into a letter agreement, pursuant to which we agreed that, if during the next five years Novartis is not eligible to sell pursuant to Rule 144(b)(1) shares of our common stock it holds, excluding ineligibility resulting from the purchase by Novartis or its affiliates of additional shares of our common stock, Novartis will have registration rights for such shares similar to those rights set forth in the original investor rights agreement. At December 31, 2012, Novartis owned approximately 7.7% of our common stock, according to an amended Schedule 13G filed by Novartis with the SEC on February 11, 2013.

Other than these transactions, we have not been a participant in any transaction, nor is there any currently proposed transaction, that is reportable under Item 404(a) of Regulation S-K.

INFORMATION ABOUT EXECUTIVE OFFICER AND DIRECTOR COMPENSATION

Compensation Discussion and Analysis

Our compensation committee is responsible for overseeing the total compensation of our senior management team, which is comprised of our named executive officers and all of our vice presidents. In this capacity, our compensation committee designs, implements, reviews and approves all compensation for our chief executive officer and our other named executive officers. This section discusses the principles underlying our policies and decisions with respect to the compensation of our executive officers who are named in the Summary Compensation Table below, or our named executive officers, and all material factors relevant to an analysis of these policies and decisions. Our named executive officers are:

John M. Maraganore, Ph.D., our Chief Executive Officer;

Barry E. Greene, our President and Chief Operating Officer;

Akshay K. Vaishnav, M.D., Ph.D., our Executive Vice President and Chief Medical Officer;

Laurence E. Reid, Ph.D., our Senior Vice President and Chief Business Officer; and

Michael P. Mason, our Vice President of Finance and Treasurer.

Executive Summary

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The goal of our compensation committee is to ensure that our compensation programs are aligned with the interests of our stockholders and our business goals and that the total compensation paid to each of our named executive officers is fair, reasonable and competitive. Key elements of our compensation programs include:

base salary, positioned within the range of the market median to enable us to attract and retain the talent needed to continue to drive our business successfully;

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an annual cash incentive program tied to the achievement of pre-determined quantitative and qualitative corporate performance goals, under which cash incentives are only awarded if corporate performance against goals is at least 50% and awards are capped at a specified target percentage; and

equity incentive compensation, which is provided to all employees, is typically subject to multi-year vesting based on continued service and is primarily in the form of stock options, the value of which depends on the performance of our common stock price, in order to align employee interests with those of our stockholders over the longer-term.

We target total compensation for our executives between the 50th and 75th percentiles of compensation paid to similarly situated executives of the companies in our peer group, however, because we have a pay-for-performance philosophy, actual compensation levels are sensitive to the achievement of corporate and individual goals.

In addition to our direct compensation elements, the following compensation program features are designed to align our executive team with stockholder interests and market best practices:

We do not provide enhanced change-in-control remuneration and, as such, do not offer any tax gross-up payments to our executive team. We do not have employment agreements with any of our executive officers pursuant to which they are eligible for potential severance payments upon termination or a change-in-control of Alnylam; and

We do not offer our executive team any substantially enhanced benefits or perquisites when compared to our employee population. As described below, during 2012, we made significant progress on our clinical development and business development goals, including:

Achieving positive clinical data in our ALN-TTR02 Phase I clinical trial in healthy volunteer subjects showing up to a 94% knockdown of the disease-causing protein, transthyretin, or TTR;

Initiating a Phase II trial of ALN-TTR02 in patients;

Filing a clinical trial application, or CTA, to initiate a Phase I clinical trial for ALN-TTRsc in early 2013;

Achieving positive clinical data in our ALN-PCS Phase I clinical trial in healthy volunteer subjects showing up to a 50% decrease in LDL cholesterol;

Advancing our ALN-AT3 program in preparation for a clinical trial in 2013;

Achieving promising clinical data in our ALN-RSV01 Phase IIb clinical trial in lung transplant patients, with evidence of a decreased incidence of new or progressive bronchiolitis obliterans syndrome, or BOS;

Entering into a license and collaboration agreement with Genzyme Corporation for our ALN-TTR program in Japan and the Asia-Pacific region;

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Entering into a license and collaboration agreement with Ascleptis Pharmaceuticals (Hangzhou) Co., Ltd. for our ALN-VSP program in China and Taiwan; and

Entering into a license and collaboration agreement with Monsanto Company in the field of agriculture.

In addition, as a result of positive clinical results and strong business progress, our stock price appreciated approximately 124% during 2012. Based on our performance during 2012, our board determined that we achieved 80% of our corporate goals for 2012, including all of our pipeline goals, which allows us to focus our development efforts and further advance our key programs in the clinic in 2013.

Say-on-Pay Feedback from Stockholders

At our 2011 annual meeting of stockholders, a majority of our stockholders supported an annual advisory vote on our executive compensation and, in response, our board of directors determined to hold an annual vote on the matter. In 2011, we submitted our executive compensation program to an advisory vote of our stockholders

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and it received the support of over 98% of the total votes cast at our 2011 annual meeting of stockholders. In 2012, our executive compensation program received the support of over 90% of the total votes cast at our 2012 annual meeting of stockholders. Our compensation committee believes that the stockholders, through this advisory vote, generally endorsed our compensation philosophies and, thus, our compensation committee maintained the basic structure and design of our executive compensation program for fiscal year 2013. Our compensation committee will review the results of future annual advisory votes and consider this feedback as it completes its annual review of each pay element and the total compensation packages for our named executive officers with respect to the next fiscal year.

Compensation Consultants

Our compensation committee has retained Towers Watson, an independent, nationally recognized compensation consultant, to provide assistance from time to time in reviewing the compensation paid to our senior management team and our non-employee directors, and to review our compensation programs and practices generally. In 2012, our compensation committee engaged Towers Watson to assist it in assessing competitive compensation levels and pay mix (base salary, target annual incentive award and long-term incentive compensation) for our five named executive officers, including our chief executive officer, based upon a comparison with our 2012 peer group, which was updated to reflect those peer companies that were available for analysis in 2012. In connection with its work for the compensation committee during 2012, Towers Watson also provided guidance to the compensation committee on items specific to 2013 merit budgets within our industry.

Determining and Setting Executive Compensation

We develop our compensation programs after reviewing publicly available compensation data and subscription survey data for our peer group, as described below.

Defining and Comparing Compensation to Market Benchmarks

In evaluating the total compensation of our named executive officers, our compensation committee, using information provided by Towers Watson, establishes a peer group of publicly traded, national and regional companies in the biopharmaceutical and biotechnology industries that is selected based on a balance of the following criteria:

companies whose organizational structure, number of employees, stage of development, market capitalization, and research and development expenditures are similar, though not necessarily identical, to ours;

companies with similar executive positions to ours;

companies against which we believe we compete for executive talent; and

public companies based in the United States whose compensation and financial data are available in proxy statements or other public documents.

Based on these criteria, our peer group for 2012, referred to as our 2012 peer group, was comprised of the following companies:

Ardea Biosciences, Inc.	Immunogen, Inc.	Neurocrine Biosciences, Inc.
Ariad Pharmaceuticals, Inc.	Incyte Corporation	Rigel Pharmaceuticals, Inc.
ArQule, Inc.	Infinity Pharmaceuticals, Inc.	Sangamo Biosciences, Inc.
AVEO Pharmaceuticals, Inc.	Isis Pharmaceuticals, Inc.	Seattle Genetics, Inc.
Exelixis, Inc.	Lexicon Pharmaceuticals, Inc.	Targacept, Inc.
Geron Corporation	Micromet, Inc.	

Idenix Pharmaceuticals, Inc.

Momenta Pharmaceuticals, Inc.

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The peer group for our named executive officers is approved by our compensation committee.

In June 2012, our compensation committee engaged Towers Watson for assistance in reviewing the compensation of our named executive officers. This review was conducted mid-year and was based upon data from our 2012 peer group, which was amended to exclude Micromet, Inc. which was acquired by Amgen Inc. in January 2012. The results of this review of the compensation of our named executive officers is described in detail below under the heading Base Salary.

We believe that the compensation practices of our 2012 peer group provided us with appropriate compensation benchmarks for evaluating the compensation of our named executive officers during 2012. Notwithstanding the similarities of the 2012 peer group to Alnylam, due to the nature of our business, we compete for executive talent with many companies that are larger and more established than we are or that possess greater resources than we do, as well as with prestigious academic and non-profit institutions. Accordingly, in 2012, our compensation committee generally targeted compensation for our executive officers as follows:

base salaries between the 50th and 60th percentiles of the salaries in our 2012 peer group;

annual cash incentive award opportunities at or below the 50th percentile of our 2012 peer group;

total annual equity incentive awards, provided entirely in the form of stock options with value tied to stock price appreciation, at or above the 75th percentile of our 2012 peer group; and

total compensation for our executives between the 50th and 75th percentiles of compensation paid to similarly situated executives of the companies in our 2012 peer group.

Our compensation committee may consider other criteria, including market factors, the experience level of the executive and the executive's performance against established corporate goals, in determining variations to this general target range.

Other Key Performance Factors in Determining Executive Compensation

As the biopharmaceutical industry is characterized by a very long product development cycle, including a lengthy research and development period and a rigorous approval phase involving human testing and governmental regulatory approval, many of the traditional benchmarking metrics, such as product sales, revenues and profits are inappropriate for an early-stage biopharmaceutical company, such as Alnylam. Instead, the specific performance factors our compensation committee considers when determining the compensation of our named executive officers include:

key research and development achievements, including advances in RNAi delivery and technology;

initiation and progress of clinical trials;

achievement of regulatory milestones;

establishment and maintenance of key strategic relationships and new business initiatives;

filing, prosecution, defense and enforcement of key intellectual property rights;

development of organizational capabilities; and

financial and operating performance.

These performance factors are considered by our compensation committee in connection with our annual performance reviews described below and are a critical component in the determination of annual cash and equity incentive awards for our executives.

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Annual Performance Reviews

Our compensation committee conducts an annual performance review of our named executive officers and approves the compensation of each member of our senior management team. During the first quarter of each year, annual corporate goals and individual performance objectives are determined and set forth in writing. At the beginning of the second half of each year, senior management formally reviews performance against goals for the first half of the year and re-aligns key goals for the second half of the year. At the end of each year, our compensation committee determines executive compensation levels after carefully reviewing overall corporate performance and performing a detailed evaluation of each named executive officer's annual performance against established corporate goals, as well as each individual executive officer's contributions to achievement of the corporate goals. In addition, our compensation committee may apply its discretion, as it deems appropriate, in determining executive compensation.

Annual corporate goals are proposed by our senior management team and approved by our board. For 2012, the individual objectives for our executive officers were the same as the corporate goals. Individual objectives for 2012 for the remaining members of our senior management team focused on contributions that were intended to drive achievement of the corporate goals and were proposed by each non-executive member of senior management, with review and input from our chief executive officer. Our compensation committee approved the individual objectives for each of the remaining members of our senior management team. Any merit increases in base salary and any annual stock option awards or cash awards made under our 2012 annual incentive program were based on the achievement of these corporate and individual performance goals and objectives. In 2012, our compensation committee established the maximum cash bonus opportunity for each member of our senior management team under the 2012 annual incentive program, representing a percentage of each individual's base salary.

During the last quarter of each year, our senior management team evaluates our corporate performance and each executive officer's individual performance, as compared to the corporate goals and, as applicable, the individual objectives for that year. Based on this evaluation, our chief executive officer recommends to our compensation committee any increases in base salary and any annual stock option awards and/or cash awards under our annual incentive program. Our compensation committee, with input from the chairman of our board, evaluates our chief executive officer's individual performance and determines whether to change his base salary, grant him an annual stock option award and/or grant him a cash award under our annual incentive program. Our compensation committee typically grants annual stock option awards, and determines changes in base salary and the amount of any cash incentive payments, at its last regularly scheduled meeting of the year. Our compensation committee may also review the compensation of our executive officers throughout the course of the year. With respect to year-end reviews, any changes in base salary are effective at the beginning of the following year. The cash incentive payments awarded under our 2012 annual incentive program were paid in January 2013.

Compensation Objectives and Philosophy

Our compensation programs are designed to attract, motivate and retain qualified and talented executives, motivating them to achieve our business goals and rewarding them for superior short- and long-term performance. In particular, our compensation programs are intended to reward the achievement of specified pre-determined quantitative and qualitative individual and corporate performance goals and objectives and to align the interests of our senior management team with those of our stockholders in order to attain our ultimate objective of increasing stockholder value.

Elements of Total Compensation and Relationship to Performance

Key elements of our compensation programs include:

base salary, positioned within the range of the market median to enable us to attract and retain the talent needed to continue to drive our business successfully;

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an annual cash incentive tied to the achievement of pre-determined quantitative and qualitative corporate performance goals, under which cash incentives are only awarded if corporate performance against goals is at least 50% and awards are capped at a specified target percentage; and

equity incentive compensation, which is typically subject to multi-year vesting based on continued service and is primarily in the form of stock options, the value of which depends on the performance of our common stock price, in order to align employee interests with those of our stockholders over the longer-term.

We award annual merit-based increases in base salary based upon an assessment of each executive's performance and the scope of his or her responsibilities. Consistent with our compensation philosophy, we target salaries between the 50th and 60th percentiles of the range of salaries of our peer group. Our 2012 annual incentive program was designed to reward annual achievements as measured against pre-determined quantitative and qualitative corporate performance goals, and, with respect to non-executive officers, individual objectives. We awarded cash incentive payments to our named executive officers and the other members of our senior management team under our 2012 annual incentive program, which is described in more detail below. In 2013, our named executive officers will be eligible to receive cash awards under our 2013 annual incentive program. We typically grant stock options to our executive officers upon commencement of their employment, annually following a review of their individual performance and in connection with a promotion. With the exception of our 2012 annual cash incentive program, we do not have any pre-established targets for allocations or apportionment by type of compensation. The mix of compensation components is designed to reward annual results as well as drive long-term company performance and create stockholder value.

Base Salary

We provide base salaries to our named executive officers to compensate them with a fair and competitive base level of compensation for services rendered during the year. Our compensation committee typically determines the base salary for each executive based on the executive's responsibilities, experience and, if applicable, the base salary level of the executive prior to joining Alnylam. In addition, our compensation committee reviews and considers the level of base salary paid by companies in our peer group for similar positions. Generally, our compensation committee believes our executives' base salaries should be targeted between the 50th and 60th percentiles of the salaries in our peer group.

Merit-based increases in base salary for all of our executive officers, other than our chief executive officer, are determined by our compensation committee based upon a written summary of the executive officer's performance and a recommendation from our chief executive officer. Any merit-based increase in base salary for our chief executive officer is based upon an assessment of his performance by our compensation committee, input from the chairman of our board and a review by our compensation committee of the base salary of chief executive officers in our peer group.

With respect to Dr. Maraganore, our chief executive officer, at the conclusion of 2012, notwithstanding the company's and Dr. Maraganore's accomplishments during the year, our compensation committee decided to accept the request by Dr. Maraganore that his base salary for 2013 remain at the same level as 2012.

In June 2012, our compensation committee reviewed the overall compensation of Mr. Greene, our president and chief operating officer, and determined that Mr. Greene's total cash compensation, including annual salary and annual cash bonus, was generally below the target percentile of cash compensation of those with similar positions in our 2012 peer group. Based on the desire of our compensation committee to provide a competitive total cash compensation level compared to our 2012 peer group, our compensation committee approved a base salary increase for Mr. Greene from \$449,904 to \$500,000 to better align his salary and overall cash compensation with our compensation philosophy and 2012 peer group.

In June 2012, Dr. Vaishnav was promoted to the position of executive vice president and chief medical officer. Dr. Vaishnav previously served as our senior vice president and chief medical officer since June 2011. In connection with Dr. Vaishnav's promotion, his annual base salary was increased from \$396,550 to \$450,000.

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At the end of 2012, our compensation committee reviewed the overall compensation of Dr. Reid, our senior vice president and chief business officer, and determined that Dr. Reid's total cash compensation, including annual salary and annual cash bonus, was generally below the target percentile of cash compensation of those with similar positions in our 2012 peer group. Based on the desire of our compensation committee to provide a competitive total cash compensation level compared to our 2012 peer group, our compensation committee approved a base salary increase for Dr. Reid from \$338,675 to \$375,000, which included both a merit increase and salary adjustment, to better align his salary and overall cash compensation with our compensation philosophy and 2012 peer group.

At the end of 2012, our compensation committee approved a merit increase in base salary for Mr. Mason, our vice president of finance and treasurer, based upon Mr. Mason's performance against the corporate goals, as well as his individual contributions to the achievement of those corporate goals. In connection with Mr. Mason's performance, his annual base salary was increased from \$247,200 to \$252,144.

The table below sets forth the adjustments to base salary, in dollars and as a percentage, for each of our named executive officers:

Name	Base Salary Adjustments		
	2012 Base Salary	2013 Base Salary	Increase (%)
John M. Maraganore, Ph.D.	\$ 669,500	\$ 669,500	0.0%
Barry E. Greene*	\$ 500,000	\$ 500,000	11.1%
Akshay K. Vaishnav, M.D., Ph.D.*	\$ 450,000	\$ 450,000	13.5%
Laurence Reid, Ph.D.	\$ 338,675	\$ 375,000	10.7%
Michael P. Mason	\$ 247,200	\$ 252,144	2.0%

* Adjustments to Mr. Greene's and Dr. Vaishnav's base salary were effected in June 2012. Neither individual's salary was further adjusted at year-end.

2012 Annual Incentive Program

Our compensation committee aims to determine an appropriate mix of cash payments and equity incentive awards to meet short- and long-term goals and objectives. In March 2012, our compensation committee approved the annual incentive program for 2012. In June 2012, in connection with Dr. Vaishnav's promotion, our compensation committee established a 50% target bonus for the executive vice president level. Each bonus award for 2012 ranged from 0% to 100% of the individual's target award, thus making each individual's target award the maximum bonus award achievable in 2012.

The table below shows the target award under the incentive program as a percentage of each executive officer's annual base salary in each of 2011 and 2012, as well as the maximum cash award opportunity in dollars for 2012 and the actual cash bonus payments to our named executive officers for 2012 performance, which were paid in January 2013, as well as the actual bonus payment as a percentage of the maximum award opportunity. The details regarding the determination of these cash bonus awards are discussed below.

2012 Annual Incentive Program

Name	2011 Target	2012 Target	2012	2012	2012
	Award	Award	Maximum	Actual	Actual
	(% of Base Salary)	(% of Base Salary)	Award Opportunity (\$)	Bonus Payment (\$)	Payment (% of Maximum Award Opportunity)
John M. Maraganore, Ph.D.	60%	60%	\$ 401,700	\$ 313,327	80%
Barry E. Greene.	50%	50%	\$ 250,000	\$ 195,001	80%
Akshay K. Vaishnav, M.D., Ph.D.	35%	50%	\$ 225,000	\$ 175,500	80%
Laurence E. Reid, Ph.D.	35%	40%	\$ 135,470	\$ 105,667	80%
Michael P. Mason	30%	30%	\$ 74,160	\$ 57,845	80%

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Under the 2012 annual incentive program, bonus awards were determined by first establishing a bonus pool. The bonus pool was calculated by aggregating the maximum awards for all eligible plan participants and then multiplying that sum by a modifier established by our compensation committee based on our performance as measured against the 2012 corporate goals. Under the 2012 annual incentive program, the corporate performance level on which such modifier was based could range from 0% to 100%, provided that if the corporate performance level for 2012 was determined to be below 50%, the program provided that the corporate performance modifier would be 0% and no awards would be granted under the incentive program. The bonus pool was then allocated among all of the plan participants in accordance with the terms of the 2012 annual incentive program. Bonus awards for our executive officers in 2012 were based upon achievement of our corporate goals. In addition, our compensation committee had the discretion under the 2012 annual incentive program to adjust upward or downward any bonus award and/or the bonus pool as it deemed appropriate.

In making its determination regarding awards under the 2012 annual incentive program, our compensation committee considered our success against our 2012 corporate goals. The 2012 corporate goals approved by our board, the relative weightings assigned to each goal at the beginning of the year, our actual achievement during the performance period as a percentage of target and the weighted performance against these corporate goals for 2012, as approved by our compensation committee and our full board, were as follows:

2012 Corporate Goals	Relative Weighting	Actual Achievement For 2012 (as a % of target)	Weighted Performance
Execute on Alnylam 5x15 product strategy with a focus on core programs, including:			
Accelerate clinical development of ALN-TTR program;	35%	100%	35%
Complete ALN-TTR02 Phase I clinical trial in healthy volunteer subjects and report data;			
Initiate ALN-TTR02 Phase II clinical trial in patients;			
Complete ALN-TTR01 Phase I clinical trial and report data; and			
Prepare for initiation of clinical trial for ALN-TTRsc in 2013.			
Advance ALN-AT3 program for hemophilia and rare blood disorders, or RBD, towards clinical studies in 2013.	20%	100%	20%
Advance other pipeline programs, including:	10%	100%	10%
Complete ALN-PCS Phase I clinical trial;			
Advance additional Alnylam 5x15 programs, including ALN-PCS and/or ALN-TMP, with new partnerships;			
Report Phase IIb data for ALN-RSV; and			
Seek a partner for ALN-VSP clinical program.			
Form additional strategic alliances and new business ventures.	15%	100%	15%
Achieve a year-end cash balance of greater than \$250 million.	20%	0%	0%
Approved 2012 Corporate Performance Level	100%		80%

Specifically, during 2012, we made significant progress on our clinical development and business development goals, including: achieving positive clinical data in our ALN-TTR02 Phase I clinical trial in healthy volunteer subjects showing up to a 94% knockdown of the disease-causing protein, TTR; initiating a Phase II trial of ALN-TTR02 in patients; filing a CTA to initiate a Phase I clinical trial for ALN-TTRsc in early 2013; achieving positive clinical data in our ALN-PCS Phase I clinical trial in healthy volunteer subjects showing up to a 50% decrease in LDL cholesterol; advancing our ALN-AT3 program in preparation for a clinical trial in 2013; achieving promising clinical data in our ALN-RSV01 Phase IIb clinical trial in lung transplant patients, with evidence of a decreased incidence of new or progressive BOS; entering into a license and collaboration agreement with Genzyme Corporation for our ALN-TTR program in Japan and the Asia-Pacific region;

entering into a license and collaboration agreement with Ascleptis Pharmaceuticals (Hangzhou) Co., Ltd. for our ALN-VSP

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program in China and Taiwan; and entering into a license and collaboration agreement with Monsanto Company in the field of agriculture. In addition, as a result of positive clinical results and strong business progress, our stock price appreciated approximately 124% during 2012. Based on our performance during 2012, our board determined that we achieved 80% of our corporate goals for 2012, including all of our pipeline goals, which allows us to focus our development efforts and further advance our key programs in the clinic in 2013.

Equity Awards

Our equity awards program is designed to:

reward demonstrated leadership and performance;

align our executive officers' interests with those of our stockholders;

retain our executive officers through the term of the awards;

maintain competitive levels of executive compensation; and

motivate our executive officers for outstanding future performance.

The market for qualified and talented executives in the biopharmaceutical industry is highly competitive and we compete for talent with many companies that have greater resources than we do. Accordingly, we believe equity compensation is a crucial component of any competitive executive compensation package we offer.

Historically, our equity awards have taken the form of stock options. We typically grant stock options to each of our executive officers upon commencement of employment, annually in conjunction with our review of individual performance and in connection with a promotion.

All stock option awards to our executive officers are approved by our compensation committee and, other than stock option awards to new hires, are typically granted at our compensation committee's regularly scheduled meeting at the end of the year. Stock option awards vary among our executive officers based on their positions and annual performance assessments. In addition, our compensation committee reviews all components of the executive's compensation to ensure that his or her total compensation is aligned with our overall philosophy and objectives. All stock options granted to our executives have exercise prices equal to the fair market value of our common stock on the date of grant, so that the recipient will not earn any compensation from his or her options unless our share price increases above the value on the date of grant. Accordingly, this portion of our executive officers' compensation is at risk and is directly aligned with stockholder value creation.

In addition, the stock options granted to our executive officers typically vest over four years, which we believe provides an incentive to our executives to add value to the company over the long-term and to remain with Alnylam. Typically, the stock options we grant to our executives have a ten-year term and vest as to 25% of the shares on the first anniversary of the grant date and as to an additional 6.25% of the shares at the end of each successive three-month period thereafter until the fourth anniversary of the grant date. Vesting ceases upon termination of employment and exercise rights typically cease three months following termination of employment, except in the case of death or disability. Prior to the exercise of an option, the stock option holder does not have any rights as a stockholder with respect to the shares subject to such option, including voting rights and the right to receive dividends or dividend equivalents.

The number of stock options granted to our named executive officers during 2012, and the value of those awards determined in accordance with Financial Accounting Standards Board, or FASB, Accounting Standard Codification, or ASC, Topic 718, are shown in the 2012 Grants of Plan-Based Awards table below.

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We do not have any equity ownership guidelines for our executive officers or directors. In connection with the annual review of each executive officer's individual performance and consistent with our compensation philosophy, our compensation committee approved annual equity incentive awards for our executive officers. The annual incentive awards granted to our named executive officers are set forth in the table below:

2012 Annual Equity Incentive Awards	
Name	Option Award
John M. Maraganore, Ph.D.	150,000
Barry E. Greene	100,000
Akshay K. Vaishnav, M.D., Ph.D.	50,000
Laurence E. Reid, Ph.D.	40,000
Michael P. Mason	10,000

In January 2012, our board of directors approved a strategic corporate restructuring pursuant to which we reduced our overall workforce by approximately 33%, to approximately 115 employees. The goal of the strategic corporate restructuring was to align our resources to focus on what we believe to be our highest value opportunities, including a focus on ALN-TTR and ALN-AT3 as our lead programs, while advancing other pipeline programs through existing alliances and new collaborations. In connection with the restructuring, our compensation committee approved a company-wide retention program under which each employee, other than our chief executive officer and our president and chief operating officer, received a restricted stock award equal to one-third of his or her annual base salary. The restricted stock awards serve as retention vehicles as they vest in full on the second anniversary of the grant date only if the individual remains an employee of the company. Under this retention program, Drs. Vaishnav and Reid and Mr. Mason received restricted stock awards of 12,588 shares, 10,751 shares and 7,847 shares, respectively.

Benefits and Other Compensation

Other compensation to our executives consists primarily of the broad-based benefits we provide to all employees, including health and dental insurance, life and disability insurance, an employee stock purchase plan and a 401(k) plan, except that executive officers are not eligible to participate in our employee stock purchase plan. Our 401(k) plan is a tax-qualified retirement savings plan pursuant to which all U.S. based employees, including executive officers, are able to contribute the lesser of up to 60% of their annual salary or the limit prescribed by the Internal Revenue Service on a before-tax basis. We match, in the form of shares of our common stock, 50% of the first 6% of a plan participant's pay that is contributed to the plan. Our contribution is made at the end of each quarter up to an annual maximum number of shares with a value of \$5,250 for each participant. Our matching contributions become 50% vested after the employee has been employed by us for one year and fully vested after the employee has been employed by us for two years.

Other Employment Arrangements

Pursuant to the terms of his letter of employment, Dr. Reid is entitled to a supplemental signing bonus of \$25,000 on each anniversary of his date of hire beginning in 2011 and ending in 2014, provided he continues to be our employee on each such anniversary date.

Cash Incentive Compensation for Our Named Executive Officers in 2013

In February 2013, our compensation committee approved the annual incentive program for 2013. The terms of the 2012 annual incentive program are substantially the same as the 2012 annual incentive program. The substantive change to the 2013 annual incentive program includes an opportunity for eligible participants to achieve up to 115% of their target award percentage based on the achievement of our 2013 corporate goals, including certain specified clinical development goals. This potential upside achievement allows us to better align our cash incentive awards with market practice while reflecting our commitment to closely managing our cash reserves.

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The table below shows the target award under the incentive program as a percentage of each executive officer's annual base salary in 2013, as well as the target cash award opportunity in dollars for 2013.

Name	2013 Annual Incentive Program	
	2013 Target Award (% of Base Salary)	2013 Target Award Opportunity (\$)
John M. Maraganore, Ph.D.	60%	\$ 401,700
Barry E. Greene	50%	\$ 250,000
Akshay K. Vaishnav, M.D., Ph.D.	50%	\$ 225,000
Laurence E. Reid, Ph.D.	40%	\$ 150,000
Michael P. Mason	30%	\$ 75,643

Each bonus award for 2013 will range from 0% to 115% of the individual's target award. In determining the 2013 cash incentive compensation for our named executive officers under the 2013 annual incentive program, our compensation committee will review the performance of the company during 2013. In particular, in making its determination, our compensation committee will consider our success against the following corporate goals:

2013 Corporate Goals	Relative Weighting
Execute on Alnylam 5x15 product strategy with a focus on core programs, including: Complete ALN-TTR02 Phase II clinical trial and report data; Initiate an open-label extension study for patients enrolled in the ALN-TTR02 Phase II clinical study;	15%
Advance ALN-TTR02 into Phase III clinical trial in Familial Amyloidotic Polyneuropathy (FAP) patients; Move ALN-TTRsc through Phase I clinical trial in healthy volunteers and into Pilot Phase II clinical trial in Familial Amyloidotic Cardiomyopathy (FAC) patients.	10%
File an investigational new drug application, or IND, for ALN-AT3 and initiate a Phase I clinical trial; and	15%
Select development candidate for ALN-AS1 program for acute intermittent porphyria (AIP) and advance ALN-AS1 towards clinical studies in 2014.	10%
Execute on key partner and business objectives, including: Form additional strategic alliances and new business ventures; and	15%
Support partner efforts on ALN-RSV and ALN-VSP programs. Achieve a year-end cash balance of greater than \$320 million.	20%
Total	100%

The corporate performance level for 2013 will range from 0% to 115%; provided, however, that the corporate performance level can only exceed 100% upon the achievement of specified clinical development goals and further provided that, if the corporate performance level for 2013 falls below a threshold of 50%, no bonus awards will be paid under the 2013 annual incentive program.

Our compensation committee retains the discretion under the 2013 annual incentive program to adjust upward or downward any bonus award and/or the bonus pool as it deems appropriate. We expect to pay any cash incentive awards made under our 2013 annual incentive program in January 2014.

Compliance with IRS Code Section 162(m)

Section 162(m) of the Internal Revenue Code of 1986, as amended, generally disallows a tax deduction to public companies for compensation in excess of \$1 million per person paid to a company's chief executive officer and its three other officers (other than the chief financial officer) whose compensation is required to be disclosed to stockholders pursuant to the Exchange Act by reason of being among the company's most highly compensated officers. Qualified performance-based compensation is not subject to the deduction limitation if

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specified requirements are met. We periodically review the potential effects of Section 162(m) and we consider whether to structure the performance-based portion of our executive compensation to comply with exemptions in Section 162(m), so that the compensation remains tax deductible to us. However, our compensation committee may, in its judgment, authorize compensation payments that do not comply with the exemptions in Section 162(m) when it believes that such payments are appropriate to attract, motivate and retain executive talent and are in our best interest and that of our stockholders.

Stock Option Granting Practices

Delegation to Our Chief Executive Officer

Currently, all of our employees, including our named executive officers, are eligible to participate in our Amended and Restated 2004 Stock Incentive Plan and our 2009 Stock Incentive Plan. All new full-time employees are granted stock options when they start employment and all continuing employees are eligible for stock option awards on an annual basis based on performance and upon promotions to positions of greater responsibility. Our compensation committee has delegated to Dr. Maraganore, our chief executive officer, the authority to make stock option awards under our Amended and Restated 2004 Stock Incentive Plan and our 2009 Stock Incentive Plan to new hires and in connection with promotions, other than grants to vice presidents and executive officers. The number of stock options he may grant to any one individual must be within the range specifically set by our compensation committee for these awards. The exercise price of such stock options must be equal to the closing price of our common stock on the NASDAQ Global Market on the date of grant. With respect to stock option awards to new hires other than vice presidents and executive officers, Dr. Maraganore approves the award prior to the employee's first date of employment with such authority and provides that the award is to be granted to the new hire on his or her first date of regular employment. With respect to stock option awards made in connection with promotions other than of vice presidents and executive officers, Dr. Maraganore approves the award in connection with such promotion and provides that the award is to be granted on the first business day of the calendar month following the date of such promotion; provided, however, that if such first business day is within ten calendar days of the date of such promotion, the grant date shall be the close of business on the first business day of the subsequent calendar month. Dr. Maraganore is required to maintain a list of stock options granted pursuant to such delegated authority and report to our compensation committee regarding such awards.

Report of the Compensation Committee on Executive Compensation

Our compensation committee has reviewed and discussed the Compensation Discussion and Analysis required by Item 402(b) of Regulation S-K with management. Based upon such review and discussions, our compensation committee recommended to our board that such section be included in this proxy statement and incorporated by reference in our Annual Report on Form 10-K for the year ended December 31, 2012, which was filed with the SEC on February 19, 2013.

By the compensation committee of the board of directors of Alnylam,

Steven M. Paul, M.D., Chair

Paul R. Schimmel, Ph.D.

Kevin P. Starr

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The following table sets forth the total compensation paid or accrued for the years ended December 31, 2012, 2011 and 2010 to our named executive officers.

Summary Compensation Table

Name	Year	Salary (\$)	Bonus (\$)	Stock Awards \$(6)	Option Awards \$(7)	Non-Equity Incentive		Total (\$)
						Plan Compensation \$(8)	All Other Compensation \$(9)	
John M. Maraganore, Ph.D. <i>Chief Executive Officer (principal executive officer)</i>	2012	669,500			1,424,385	313,327	8,798	2,416,010
	2011	595,076			561,330	229,868	11,911	1,398,185
	2010	525,000			727,695	60,900	15,084	1,328,679
Barry E. Greene (1) <i>President and Chief Operating Officer</i>	2012	474,952			949,590	195,001	20,665	1,640,208
	2011	436,800			374,220	128,726	12,740	952,486
	2010	390,000			485,130	50,895	13,539	939,564
Akshay K. Vaishnav, M.D., Ph.D. (2) <i>Executive Vice President and Chief Medical Officer</i>	2012	423,275		132,174	474,795	175,500	6,444	1,212,188
		373,932			637,828	105,118	6,474	1,123,352
	2011							
Laurence E. Reid, Ph.D. (3) <i>Senior Vice President and Chief Business Officer</i>	2012	338,675	25,000(5)	112,886	379,836	105,667	5,850	967,914
	2011	328,811	25,000(5)		149,688	64,839	5,850	574,188
	2010	189,583	50,000(5)		1,595,950	13,195	5,850	1,854,578
Michael P. Mason (4) <i>Vice President of Finance and Treasurer (principal financial officer)</i>	2012	247,200		82,394	94,959	57,845	6,204	488,602
	2011	238,061			202,656	43,685	6,158	490,560

- (1) Mr. Greene's salary included in the Summary Compensation Table with respect to 2012 differs from that set forth in the base salary table on page 31 because Mr. Greene's salary was increased in June 2012 in connection with the determination by our compensation committee that Mr. Greene's total cash compensation, including annual salary and annual cash bonus, was generally below the target percentile as compared to our 2012 peer group.
- (2) Dr. Vaishnav's salary included in the Summary Compensation Table with respect to 2012 differs from that set forth in the base salary table on page 31 because Dr. Vaishnav's salary was increased in June 2012 in connection with his promotion to executive vice president and chief medical officer.
- (3) Dr. Reid joined Alnylam as our senior vice president and chief business officer in June 2010. The amount reported as salary for 2010 represents the total salary earned by Dr. Reid during 2010 and is based upon an annual base salary of \$325,000. Dr. Reid was eligible to participate in the 2010 annual cash incentive program with a pro-rated maximum target award. In addition, Dr. Reid received an on-hire stock option award and a pro-rated 2010 annual stock option award.

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- (4) In February 2011, Mr. Mason was appointed as our vice president of finance and treasurer. Mr. Mason previously served as our senior director of finance and controller.

- (5) Pursuant to the terms of his letter of employment, we paid Dr. Reid a signing bonus of \$50,000 in July 2010. In addition, Dr. Reid is entitled to a supplemental signing bonus of \$25,000 on each anniversary of his date of hire beginning in 2011 and ending in 2014, provided he continues to be our employee on each such anniversary date.

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- (6) In January 2012, our board of directors approved a strategic corporate restructuring pursuant to which we reduced our overall workforce by approximately 33%. In connection with the restructuring, our compensation committee approved a company-wide retention program under which each employee, other than our chief executive officer and our president and chief operating officer, received a restricted stock award equal to one-third of his or her annual base salary. The restricted stock awards serve as retention vehicles as they vest in full on the second anniversary of the grant date only if the individual remains an employee of the company. The amounts reported in the Stock Awards column represent the aggregate grant date fair value of the restricted stock awards made in 2012, calculated in accordance with the provisions of FASB ASC Topic 718. The assumptions we used in calculating these amounts are included in Note 8 of our audited consolidated financial statements for the year ended December 31, 2012 included in our Annual Report on Form 10-K, filed with the SEC on February 19, 2013. We did not grant any restricted stock awards to our named executive officers in 2011 or 2010.

The amounts reported in the Summary Compensation Table for these restricted stock awards may not represent the amounts that any named executive officers will actually realize from the awards. Whether, and to what extent, a named executive officer realizes value will depend on our actual operating performance, stock price fluctuations and the named executive officer's continued employment.

- (7) The amounts reported in the Option Awards column represent the aggregate grant date fair value for the fiscal years ended December 31, 2012, 2011 and 2010 of grants of stock options to each of the named executive officers, calculated in accordance with the provisions of FASB ASC Topic 718. The assumptions we used in calculating these amounts are included in Note 8 of our audited consolidated financial statements for the year ended December 31, 2012 included in our Annual Report on Form 10-K, filed with the SEC on February 19, 2013. To see the value actually received by the named executive officer from stock option exercises in 2012, see the 2012 Option Exercises and Stock Vested table appearing below.

Details of each of the stock option awards reflected above can be found in the Outstanding Equity Awards at Fiscal Year-End for 2012 table appearing below.

The amounts reported in the Summary Compensation Table for these stock option awards may not represent the amounts that the named executive officers will actually realize from the awards. Whether, and to what extent, a named executive officer realizes value will depend on our actual operating performance, stock price fluctuations and the named executive officer's continued employment.

- (8) In March 2012, our compensation committee authorized the implementation of the annual cash incentive program for fiscal year 2012. The 2012 annual cash incentive program is described above in the Compensation Discussion and Analysis under the heading 2012 Annual Incentive Program. In February 2011, our compensation committee authorized the implementation of the annual cash incentive program for fiscal year 2011, which was described in the Compensation Discussion and Analysis under the heading 2011 Annual Incentive Program, in our 2012 proxy statement, filed with the SEC on April 27, 2012. In February 2010, our compensation committee authorized the implementation of the annual cash incentive program for fiscal year 2010, which was described in the Compensation Discussion and Analysis under the heading 2010 Annual Incentive Program, in our 2011 proxy statement, filed with the SEC on May 2, 2011.

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- (9) The amounts reported in the All Other Compensation column reflect, for each named executive officer, the sum of (i) the dollar value of life insurance premiums we paid; (ii) the amount we contributed to the 401(k) plan in respect of such executive officer; and (iii) the incremental cost to us of all perquisites and other personal benefits. Specifically, the All Other Compensation column above includes:

Name	Year	Term Life Insurance Premiums Paid by Alnylam	Dollar Value of Alnylam Common Stock Contributed by Alnylam to the Executive's Account Under 401(k) Plan	Incremental Cost to Alnylam of All Perquisites and Other Personal Benefits
		(\$)	(\$)	(\$)
John M. Maraganore, Ph.D.	2012	1,080	5,250	2,468(a)
	2011	1,080	5,250	5,581(a)
<i>Chief Executive Officer</i>	2010	600	5,250	9,234(a)
Barry E. Greene	2012	1,070	5,250	14,345(b)
	2011	1,049	5,250	6,441(b)
<i>President and Chief Operating Officer</i>	2010	742	5,250	7,547(b)
Akshay K. Vaishnav, M.D., Ph.D	2012	864	5,250	330(c)
	2011	864	5,250	360(c)
<i>Executive Vice President and Chief Medical Officer</i>	2010	847	5,250	527(c)
Laurence E. Reid, Ph.D.	2012	600	5,250	
	2011	600	5,250	
<i>Senior Vice President and Chief Business Officer</i>	2010	600	5,250	
Michael P. Mason	2012	594	5,250	360(c)
	<i>Vice President of Finance and Treasurer</i>	2011	548	5,250

- (a) Represents amounts for travel and related expenses, paid by Alnylam, including \$938 in 2012, \$2,239 in 2011 and \$3,854 in 2010, as gross-ups for the related tax liability, for the executive's spouse to accompany the executive to certain industry events that spouses were expected to attend.
- (b) Represents amounts for travel and related expenses, paid by Alnylam, including \$5,451 in 2012, \$2,598 in 2011 and \$3,158 in 2010, as gross-ups for the related tax liability, for the executive's spouse to accompany the executive to certain industry events that spouses were expected to attend.
- (c) Represents amounts for an employee fitness benefit, paid by Alnylam. For 2010, the amount for Dr. Vaishnav also includes \$167 as a gross-up for the related tax liability in 2010, in connection with the Dr. Vaishnav's subsidized fitness club membership.

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The following table sets forth information concerning each grant of an award made to a named executive officer during the fiscal year ended December 31, 2012 under any plan, contract, authorization or arrangement pursuant to which cash, securities, similar instruments or other property may be received:

2012 Grants of Plan-Based Awards

Name	Date of Grant (1)	Estimated Possible Payouts Under Non-Equity Incentive Plan Awards(2)			Option Awards: Number of Securities Underlying Options	Exercise or Base Price of Option Awards (\$)	Grant Date Fair Value of Stock and Option Awards (\$)(4)
		Threshold (\$)	Target (\$)	Maximum (\$)			
John M. Maraganore, Ph.D. <i>Chief Executive Officer</i>	12/20/12	0	\$ 401,700	\$ 401,700	150,000	\$ 18.66	\$ 1,424,385
Barry E. Greene <i>President and Chief Operating Officer</i>	12/20/12	0	\$ 250,000	\$ 250,000	100,000	\$ 18.66	\$ 949,590
Akshay K. Vaishnav, M.D., Ph.D. <i>Executive Vice President and Chief Medical Officer</i>	01/23/12				12,588		\$ 132,174
Laurence E. Reid, Ph.D. <i>Senior Vice President and Chief Business Officer</i>	01/23/12				10,751		\$ 112,886
Michael P. Mason <i>Vice President of Finance and Treasurer</i>	01/23/12				7,847		\$ 82,394
	12/20/12	0	\$ 74,160	\$ 74,160	10,000	\$ 18.66	\$ 94,959

- (1) The stock option awards reported in the 2012 Grants of Plan-Based Awards table were granted pursuant to either our Amended and Restated 2004 Stock Incentive Plan or our 2009 Plan. Our stock plans provide that the option exercise price may not be less than 100% of the fair market value of our common stock on the date of grant. These stock options vest as to 25% of the shares on the first anniversary of the grant date and as to an additional 6.25% of the shares at the end of each successive three-month period thereafter until the fourth anniversary of the grant date.
- (2) The amounts shown in the threshold, target and maximum columns reflect the minimum, target and maximum amounts payable, respectively, under our 2012 annual cash incentive program, which is described above in the Compensation Discussion and Analysis under the heading 2012 Annual Incentive Program. The actual amounts paid to each named executive officer can be found above in the Summary Compensation Table under the column entitled Non-Equity Incentive Plan Compensation.
- (3) In January 2012, our board of directors approved a strategic corporate restructuring pursuant to which we reduced our overall workforce by approximately 33%. In connection with the restructuring, our compensation committee approved a company-wide retention program under which each employee, other than our chief executive officer and our president and chief operating officer, received a restricted stock award equal to one-third of his or her annual base salary. The restricted stock awards serve as retention vehicles as they vest in full on the second anniversary of the grant date only if the individual remains an employee of the company.

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The Grant Date Fair Value, computed in accordance with FASB ASC Topic 718, represents the value of restricted stock and stock options granted during the year. The amounts reported in the 2012 Grants of Plan-Based Awards table for the restricted stock and stock option awards reflect our accounting expense and may not represent the amounts our named executive officers will actually realize from the awards. Whether, and to what extent, a named executive officer realizes value will depend on our actual operating performance, stock price fluctuations and that named executive officer's continued employment.

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The following table sets forth information concerning stock options that have not been exercised for each of our named executive officers outstanding at December 31, 2012.

Outstanding Equity Awards at Fiscal Year-End for 2012

Name	Grant Date	Option Awards(1)			Option Exercise Price (\$)	Option Expiration Date	Stock Awards(2)	
		Number of Securities Underlying Unexercised Options Exercisable	Number of Securities Underlying Unexercised Options	Option Exercise Price (\$)			Number of Shares of Stock That Have Not Vested	Market Value of Shares of Stock That Have Not Vested (\$)(3)
John M. Maraganore, Ph.D. <i>Chief Executive Officer</i>	01/06/2004	73,684		0.95	01/06/2014			
	01/06/2004	105,263(4)		0.95	01/06/2014			
	12/07/2004	150,000		6.78	12/07/2014			
	12/21/2004	250,000(5)		7.47	12/21/2014			
	12/07/2005	125,000		13.12	12/07/2015			
	12/14/2006	125,000		22.75	12/14/2016			
	12/12/2007	150,600		31.39	12/12/2017			
	12/09/2008	153,320		21.35	12/09/2018			
	12/10/2009	78,750	26,250	16.43	12/10/2019			
	12/08/2010	75,000	75,000	9.14	12/08/2020			
	11/30/2011	37,500	112,500	7.10	11/30/2021			
12/20/2012		150,000	18.66	12/20/2022				
Barry E. Greene <i>President and Chief Operating Officer</i>	11/06/2003	48,058		0.95	11/06/2013			
	01/06/2004	7,894		0.95	01/06/2014			
	04/26/2004	14,928		0.95	04/26/2014			
	12/07/2004	75,000		6.78	12/07/2014			
	12/07/2005	75,000		13.12	12/07/2015			
	12/14/2006	60,000		22.75	12/14/2016			
	12/12/2007	80,000		31.39	12/12/2017			
	12/09/2008	90,000		21.35	12/09/2018			
	12/10/2009	48,750	16,250	16.43	12/10/2019			
	12/08/2010	50,000	50,000	9.14	12/08/2020			
	11/30/2011	25,000	75,000	7.10	11/30/2021			
12/20/2012		100,000	18.66	12/20/2022				
Akshay K. Vaishnav, M.D., Ph.D. <i>Executive Vice President and Chief Medical Officer</i>	01/03/2006	40,625		12.96	01/03/2016			
	12/14/2006	30,000		22.75	12/14/2016			
	12/12/2007	32,750		31.39	12/12/2017			
	12/09/2008	60,350		21.35	12/09/2018			
	12/10/2009	33,750	11,250	16.43	12/10/2019			
	12/08/2010		15,000	9.14	12/08/2020			
	06/09/2011		62,500	9.30	06/09/2021			
	11/30/2011		30,000	7.10	11/30/2021			
	12/20/2012		50,000	18.66	12/20/2022			
	01/23/2012					12,588	229,731	
Laurence E. Reid, Ph.D. <i>Senior Vice President and Chief Business Officer</i>	06/11/2010	109,375	65,625	15.99	06/11/2020			
	12/08/2010	13,795	13,794	9.14	12/08/2020			
	11/30/2011	10,000	30,000	7.10	11/30/2021			
	12/20/2012		40,000	18.66	12/20/2022			
	01/23/2012					10,751	196,206	
Michael P. Mason <i>Vice President of Finance and Treasurer</i>	12/14/2006	15,000		22.75	12/14/2016			
	12/12/2007	14,200		31.39	12/12/2017			
	12/09/2008	12,000		21.35	12/09/2018			
	12/10/2009	12,000	4,000	16.43	12/10/2019			

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12/08/2010	2,188	8,750	9.14	12/08/2020		
02/28/2011	4,687	14,063	10.98	02/28/2021		
11/30/2011		11,250	7.10	11/30/2021		
12/20/2012		10,000	18.66	12/20/2022		
01/23/2012					7,847	143,208

- (1) All stock option awards were granted with a ten-year term and typically vest as to 25% of the shares on the first anniversary of the grant date and as to an additional 6.25% at the end of each successive three-month period thereafter, unless otherwise noted herein.

- (2) In January 2012, our board of directors approved a strategic corporate restructuring pursuant to which we reduced our overall workforce by approximately 33%. In connection with the restructuring, our

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compensation committee approved a company-wide retention program under which each employee, other than our chief executive officer and our president and chief operating officer, received a restricted stock award equal to one-third of his or her annual base salary on January 23, 2012. The restricted stock awards serve as retention vehicles as they vest in full on the second anniversary of the grant date only if the individual remains an employee of the company.

- (3) The market value of shares of restricted stock that have not vested is based on the number of unvested shares of restricted stock outstanding times the closing price of our common stock on the NASDAQ Global Market on December 31, 2012.
- (4) These options were granted on January 6, 2004 and vested in full upon our initial public offering in May 2004.
- (5) These options were granted on December 21, 2004 and, pursuant to the terms of the grant, vested in full upon the effective date of the Novartis research collaboration and license agreement, described above under Related Person Transactions - Agreements with Novartis. The following table sets forth information concerning the exercise of stock options during 2012 for each of our named executive officers.

2012 Option Exercises and Stock Vested

Name	Option Awards	
	Number of Shares Acquired on Exercise	Value Realized on Exercise \$(1)
John M. Maraganore, Ph.D. <i>Chief Executive Officer</i>	18,617	332,593(2)
Barry E. Greene <i>President and Chief Operating Officer</i>		
Akshay K. Vaishnaw, M.D., Ph.D. <i>Executive Vice President and Chief Medical Officer</i>	62,500	610,827
Laurence E. Reid, Ph.D. <i>Senior Vice President and Chief Business Officer</i>		
Michael P. Mason <i>Vice President of Finance and Treasurer</i>	25,295	202,711

- (1) The value realized on exercise is based on the sales price of the shares less the applicable option exercise price.
- (2) This transaction represents a stock option exercise and hold that occurred in fiscal year 2012. The value realized on this transaction is based on the market price of the shares on the date of exercise less the applicable option exercise price.

Potential Payments Upon Termination or Change-in-Control

We do not have agreements with any of our executive officers pursuant to which they are eligible for potential payments upon termination or change in control of Alnylam.

Employment Arrangements

Each executive officer has signed a nondisclosure, invention and non-competition agreement providing for the protection of our confidential information and ownership of intellectual property developed by such executive officer and a covenant not to compete with us for a period of eighteen months after termination of employment.

Pursuant to the terms of his letter of employment, we paid Dr. Reid a signing bonus of \$50,000 in July 2010. In the event that Dr. Reid either voluntarily terminated his employment with us, other than for good reason, or was terminated by us for cause, within the first 24 months of his employment with us, he would have been

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required to repay the full amount of this signing bonus. Under his letter of employment, Dr. Reid is also entitled to a supplemental signing bonus of \$25,000 on each of the first, second, third and fourth anniversaries of his date of hire, provided he continues to be our employee on each such anniversary date.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table provides information as of December 31, 2012 about the securities authorized for issuance under our equity compensation plans, consisting of our 2002 Employee, Director and Consultant Stock Option Plan (the 2002 Plan), our 2003 Employee, Director and Consultant Stock Option Plan (the 2003 Plan), our Amended and Restated 2004 Stock Incentive Plan (the 2004 Plan), our 2009 Plan and our 2004 Employee Stock Purchase Plan, as amended (the ESPP Plan). All of our equity compensation plans were adopted with the approval of our stockholders.

Equity Compensation Plan Information

	Number of Securities to Be Issued Upon Exercise of Outstanding Options and Rights	Weighted-Average Exercise Price of Outstanding Options and Rights (\$)	Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans(1)(2)(3)
Equity compensation plans approved by stockholders	8,931,583	\$ 15.71	815,916
Equity compensation plans not approved by stockholders			
Total	8,931,583	\$ 15.71	815,916

- (1) Does not include shares of restricted stock as these are outstanding shares.
- (2) Consists of 368,319 shares of our common stock available for future issuance under our 2004 Plan, 173,487 shares of our common stock available for future issuance under our 2009 Plan and 274,110 shares of our common stock available for future issuance under our ESPP Plan. No shares of our common stock were available for issuance under our 2002 Plan or our 2003 Plan as of December 31, 2012. This amount does not reflect the proposed increase in shares reserved for issuance under our 2009 Plan, as amended, as set forth in Proposal 2 below. In addition, at December 31, 2012, there were 603,760 shares of restricted stock outstanding under our 2009 Plan with a weighted average remaining contractual life of approximately one year.
- (3) At March 31, 2013, options to purchase 8,567,686 shares of common stock were outstanding under all equity plans. The number of remaining securities available for future issuance under equity compensation plans of 740,979 consists of 287,007 shares of our common stock available for future issuance under our 2004 Plan, 179,862 shares of our common stock available for future issuance under our 2009 Plan and 274,110 shares of our common stock available for future issuance under our ESPP Plan. No shares of our common stock were available for issuance under our 2002 Plan or our 2003 Plan as of March 31, 2013. This amount does not reflect the proposed increase in shares reserved for issuance under our 2009 Plan, as amended, as set forth in Proposal 2 below. The weighted average remaining contractual life for options outstanding at March 31, 2013 was 6.3 years and the weighted average exercise price for such options was \$16.06. In addition, at March 31, 2013, there were 603,760 shares of restricted stock outstanding under our 2009 Plan with a weighted average remaining contractual life of approximately one year.

Compensation of Directors

We compensate our non-employee directors for their service as directors. We do not pay directors who are also our employees any additional compensation for their service as a director. Accordingly, Dr. Maraganore does not receive any additional compensation for his service as a director.

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Our compensation committee periodically reviews the compensation we pay our non-employee directors. Our compensation committee compares our board compensation to compensation paid to non-employee directors

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of similarly sized public companies at a similar stage of development in the biotechnology industry. Our compensation committee also considers the responsibilities we ask of our board members along with the amount of time required to perform those responsibilities.

Each non-employee director is entitled to receive a cash fee of \$50,000 per year. In the event any non-employee director is not eligible to accept equity compensation due to the policies of his or her employment, he or she is entitled to receive a cash fee of \$75,000 per year. The chairs of our board and our nominating and corporate governance committee are each entitled to receive an additional \$5,000 per year, the chair of our compensation committee is entitled to receive an additional \$10,000 per year, and the chairs of our audit committee and our science and technology committee are each entitled to receive an additional \$15,000 per year.

Each non-employee director is also entitled to receive upon his or her initial election to our board a stock option award for 30,000 shares of common stock, vesting annually over three years, and an additional stock option award to purchase 15,000 shares of common stock at each year annual meeting at which he or she served as a director, vesting in full on the first anniversary of the date of grant. In addition, the chair of our audit committee is entitled to an additional stock option award to purchase 10,000 shares of common stock per year and the chair of our science and technology committee is entitled to an additional stock option award to purchase 15,000 shares of common stock per year. Our board may, in its discretion, increase or decrease the size of the award made to a director upon election or in connection with the annual stock option award or make other option awards to our directors. The exercise price of these stock options is the fair market value of our common stock on the date of grant. We also reimburse our directors for reasonable travel and other related expenses incurred in connection with their service on our board.

The following table sets forth information concerning the compensation of our non-employee directors in 2012.

Director Compensation

Name	Fees Earned or Paid in Cash (\$)	Option Awards \$(2)(3)(4)	All Other Compensation (\$)	Total (\$)
Dennis A. Ausiello, M.D.(1)	52,313			52,313
John K. Clarke	60,000	88,761		148,761
Victor J. Dzau, M.D.	50,000	88,761		138,761
Marsha H. Fanucci	50,000	88,761		138,761
Steven M. Paul, M.D.	60,000	88,761		148,761
Paul R. Schimmel, Ph.D.	50,000	88,761		138,761
Phillip A. Sharp, Ph.D.	65,000	177,522	25,000(5)	267,522
Kevin P. Starr	65,000	147,935		212,935

- (1) Dr. Ausiello was elected to our board of directors in April 2012. Dr. Ausiello filled a vacancy created in 2011 upon the retirement of one of our directors. Under his employer's policy, Dr. Ausiello is currently subject to limitations on the amount of compensation he can receive from us and is not permitted to receive any equity compensation for serving as a director. In the event Dr. Ausiello becomes eligible to receive equity compensation in the future, his compensation will be adjusted to be consistent with the non-employee director compensation described above. Dr. Ausiello also serves as a member of our scientific advisory board. He does not receive any additional compensation for such service, but is reimbursed for reasonable travel and other related expenses incurred in connection with his attendance at scientific advisory board meetings.
- (2) The amounts in this column reflect the aggregate grant date fair value for the fiscal year ended December 31, 2012, in accordance with FASB ASC Topic 718, of stock options granted under our equity plans for service on our board and treated for accounting purposes as employee awards. There can be no assurance that these amounts will ever be realized. The assumptions we used to calculate these amounts are

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included in Note 8 to our audited consolidated financial statements for the fiscal year ended December 31, 2012 included in our Annual Report on Form 10-K, filed with the SEC on February 19, 2013. See footnote 3 below for the compensation expense of stock options granted under our equity plans to a director for non-board services and treated for accounting purposes as non-employee awards.

- (3) As of December 31, 2012, our non-employee directors held the following aggregate number of shares under outstanding stock options (representing unexercised option awards both exercisable and unexercisable):

Name	Number of Shares	Number of Shares
	Underlying Outstanding Stock Options for Board Service	Underlying Outstanding Stock Options for Non-Board Service
Dennis A. Ausiello, M.D.	(a)	
John K. Clarke	110,000	
Victor J. Dzau, M.D.	105,000	
Marsha H. Fanucci	60,000	
Steven M. Paul, M.D.	60,000	
Paul R. Schimmel, Ph.D.	90,000	
Phillip A. Sharp, Ph.D.	140,000	205,000(b)
Kevin P. Starr	242,631	

- (a) Dr. Ausiello was elected to our board of directors in April 2012. Under his employer's policy, Dr. Ausiello is currently not permitted to receive any equity compensation for serving as a director.
- (b) Dr. Sharp received these stock options between 2005 and 2010 in connection with his service on our scientific advisory board.

- (4) The number of shares underlying stock options granted to our non-employee directors for their service on our board during 2012 and the grant date fair value of such stock options are as follows:

Name	Date of Grant	Number of	Grant Date Fair
		Shares Underlying Stock Option Grants in 2012	Value of Stock Option Grants in 2012 \$(b)
Dennis A. Ausiello, M.D.(a)			
John K. Clarke	06/21/2012	15,000	88,761
Victor J. Dzau, M.D.	06/21/2012	15,000	88,761
Marsha H. Fanucci	06/21/2012	15,000	88,761
Steven M. Paul, M.D.	06/21/2012	15,000	88,761
Paul R. Schimmel, Ph.D.	06/21/2012	15,000	88,761
Phillip A. Sharp, Ph.D.	06/21/2012	30,000	177,522
Kevin P. Starr	06/21/2012	25,000	147,935

- (a) Dr. Ausiello was elected to our board of directors in April 2012. Under his employer's policy, Dr. Ausiello is currently not permitted to receive any equity compensation for serving as a director.
- (b) The Grant Date Fair Value computed in accordance with FASB ASC Topic 718 represents the value of stock options granted during 2012. The weighted-average grant date fair value per option was \$5.92. There can be no assurance that the Grant Date Fair Value computed in accordance with FASB ASC Topic 718 will ever be realized.

(5) This amount reflects compensation paid to Dr. Sharp for service on our scientific advisory board during 2012.

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PROPOSAL 2 APPROVAL OF 2009 STOCK INCENTIVE PLAN, AS AMENDED

Our board of directors believes that stock options and other stock-based incentive awards can play an important role in the success of our company by encouraging and enabling our employees, officers, directors, consultants and advisors upon whose judgment, initiative and efforts we largely depend for the successful conduct of our business to acquire a proprietary interest in the company. The board of directors anticipates that providing such persons with a direct stake in the company will assure a closer identification of the interests of such individuals with those of the company and its stockholders, thereby stimulating their efforts on our behalf and strengthening their desire to remain with the company.

On March 20, 2013, upon the recommendation of our compensation committee, our board of directors approved an amendment to the 2009 Stock Incentive Plan (the 2009 Plan), subject to stockholder approval, to increase the aggregate number of shares authorized for issuance under the 2009 Plan by 3,700,000 shares to 5,900,000 shares of common stock. These additional shares would enhance the flexibility of our compensation committee in granting stock options and other awards to our officers, employees, directors, consultants and advisors and to ensure that we can continue to grant stock options and other awards to such persons at levels determined to be appropriate by our compensation committee. Our board believes that an increase in shares authorized for issuance under the 2009 Plan, as amended is appropriate and in the best interests of our stockholders given our current expectations on hiring, the highly competitive environment in which we recruit and retain employees and our historical burn rate. Our management will continue to carefully consider all proposed grants under the 2009 Plan, as amended. A copy of the 2009 Plan, as amended, is attached as Appendix A to the electronic copy of this proxy statement filed with the SEC and may be accessed from the SEC's website at www.sec.gov. In addition, a copy of the 2009 Plan, as amended, may be obtained by making a written request to: Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts 02142, Attention: Investor Relations and Corporate Communications.

We are seeking stockholder approval of the 2009 Plan, as amended. Stockholder approval will also serve as a re-approval of the performance measures set forth in the 2009 Plan, as further described below under the section entitled Qualified Performance-Based Compensation under Code Section 162(m).

At March 31, 2013, options to purchase 8,567,686 shares of common stock were outstanding under our 2009 Plan, our 2004 Plan, our 2002 Plan and our 2003 Plan, and an additional 179,862 shares and 287,007 shares were available for future grants under our 2009 Plan and our 2004 Plan, respectively. No shares of our common stock were available for future grants under our 2002 Plan or our 2003 Plan as of March 31, 2013. The weighted average remaining contractual life for options outstanding at March 31, 2013 was 6.3 years and the weighted average exercise price for such options was \$16.06. In addition, at March 31, 2013, there were 603,760 shares of restricted stock outstanding under our 2009 Plan with a weighted average remaining contractual life of approximately one year.

Our board of directors is submitting the 2009 Plan, as amended, for approval by our stockholders and has specifically conditioned the effectiveness of the amendment on such approval. If our stockholders do not approve the 2009 Plan, as amended, the existing 2009 Plan, excluding the proposed increase in shares available for issuance thereunder, will remain in effect. In such event, our board of directors will consider whether to adopt alternative arrangements based on its assessment of our needs.

Summary of Material Features of the 2009 Plan, as amended

The material features of the 2009 Plan, as amended, are:

The maximum number of shares of common stock to be issued under the 2009 Plan is 5,900,000;

Grants of full-value awards are deemed for purposes of determining the number of shares available for future grants under the 2009 Plan as an award for 1.5 shares for each share of common stock subject to the award. Grants of stock options or stock appreciation rights are deemed to be an award of one share for each share of common stock subject to the award;

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Shares tendered or held back for taxes will not be added back to the reserved pool under the 2009 Plan. Upon the exercise of a stock appreciation right, the full number of shares underlying the award will be charged to the reserved pool. Additionally, shares reacquired by the company on the open market or otherwise using cash proceeds of option exercises will not increase the reserved pool;

The award of stock options (both incentive and non-qualified options), stock appreciation rights, restricted stock, restricted stock units, other stock-based awards and performance awards is permitted;

Minimum vesting periods are required for certain grants of restricted stock, restricted stock units and performance share awards;

The exercise price of stock options and stock appreciation rights may not be decreased in any manner without stockholder approval;

Any material amendment to the 2009 Plan is subject to approval by our stockholders; and

The term of the 2009 Plan will expire on June 10, 2019.

Based solely on the closing price of our common stock as reported by the NASDAQ Global Market on March 20, 2013, the date our board approved the proposed amendment to the 2009 Plan, the maximum aggregate market value of the additional 3,700,000 shares of common stock that could potentially be issued under the 2009 Plan pursuant to the amendment is \$89.8 million. The shares we issue under the 2009 Plan will be authorized but unissued shares or treasury shares. The shares of common stock underlying any awards that expire or are terminated, surrendered or canceled without having been fully exercised or are forfeited in whole or in part are added back to the shares of common stock available for issuance under the 2009 Plan.

Qualified Performance-Based Compensation under Code Section 162(m)

To ensure that certain awards granted under the 2009 Plan to a Covered Employee (as defined in the Internal Revenue Code of 1986 (the Code)) qualify as performance-based compensation under Section 162(m) of the Code, the 2009 Plan provides that the compensation committee may require that the vesting of such awards be conditioned on the achievement of one or more objective performance measures to be established by the compensation committee, which shall be based on the relative or absolute attainment of specified levels of one or any combination of the following: (1) net income; (2) earnings before or after discontinued operations, interest, taxes, depreciation and/or amortization; (3) operating profit before or after discontinued operations and/or taxes; (4) sales; (5) sales growth; (6) earnings growth; (7) cash flow or cash position; (8) gross margins; (9) stock price; (10) market share; (11) return on sales, assets, equity, or investment; (12) improvement of financial ratings; (13) achievement of balance sheet or income statement objectives; (14) total shareholder return; (15) market penetration goals; (16) unit volume; (17) geographic business expansion goals; (18) drug discovery or other scientific goals; (19) pre-clinical or clinical goals; (20) organizational goals; (21) regulatory approvals; (22) cost targets; and (23) goals relating to acquisitions, divestitures and/or strategic partnerships. Subject to adjustments for stock splits and similar events, the maximum number of shares of common stock with respect to which awards may be granted to any one individual under the 2009 Plan is 500,000 per calendar year, except for the calendar year in which an individual is hired, in which case the maximum number of shares is 1,000,000 per calendar year. For purposes of the limits described above, the combination of a stock option in tandem with a stock appreciation right shall be treated as a single award.

Summary of the 2009 Plan, as amended

The following description of certain features of the 2009 Plan, as amended, is intended to be a summary only. The summary is qualified in its entirety by the full text of the 2009 Plan, as amended, that is attached as Appendix A to the electronic copy of this proxy statement filed with the SEC and may be accessed from the SEC's website at www.sec.gov. In addition, a copy of the 2009 Plan, as amended, may be obtained by making a written request to: Alnylam Pharmaceuticals, Inc., 300 Third Street, Cambridge, Massachusetts 02142, Attention: Investor Relations and Corporate Communications. References to our board of directors in this summary shall include the compensation committee of our board of directors or similar committee appointed by the board of directors to administer the 2009 Plan, as amended.

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Plan Administration. The 2009 Plan is administered by the compensation committee. To the extent permitted by applicable law, the compensation committee may delegate to one or more of our officers the authority to grant stock options and other awards to employees of the company or any of our present or future subsidiary corporations who are not subject to the reporting and other provisions of Section 16 of the Exchange Act and are not executive officers, as defined in Rule 3b-7 of the Exchange Act, subject to certain limitations and guidelines. Discretionary awards to non-employee directors may only be granted and administered by a committee, all of the members of which are independent as defined by Section 4200(a)(15) of the NASDAQ Marketplace Rules.

Eligibility. Persons eligible to participate in the 2009 Plan are employees, officers, directors, consultants and advisors of the company and its subsidiaries as selected from time to time by the compensation committee in its discretion. Approximately 140 individuals are currently eligible to participate in the 2009 Plan, which includes five executive officers, 14 non-executive officers, 113 employees who are not officers, and eight non-employee directors.

Plan Limits. The maximum number of shares of common stock with respect to which awards may be granted to any one individual under the 2009 Plan is 500,000 per calendar year, except for the calendar year in which an individual is hired, in which case the maximum number of shares is 1,000,000 per calendar year (subject to adjustment for stock splits and similar events).

Effect of Awards. For purposes of determining the number of shares of common stock available for issuance under the 2009 Plan, the grant of any full value award, such as a restricted stock award or a restricted stock unit will be counted as 1.5 shares for each share of common stock actually subject to the award. The grant of any stock option or stock appreciation right will be counted for this purpose as one share from each share of common stock actually subject to the award.

Stock Options. The 2009 Plan permits the granting of (1) options to purchase common stock intended to qualify as incentive stock options under Section 422 of the Code and (2) options that do not so qualify. Options granted under the 2009 Plan will be non-qualified options if they fail to qualify as incentive options or exceed the annual limit on incentive stock options. Incentive stock options may be granted only to employees of the company and its subsidiaries. Non-qualified options may be granted to any persons eligible to receive incentive options and to non-employee directors, consultants and advisors. The option exercise price of each option will be determined by the compensation committee but may not be less than 100% of the fair market value of the common stock on the date of grant. Fair market value for this purpose will be the closing sale price (for the primary trading session) of the shares of common stock on the NASDAQ Global Market on the date of grant. The exercise price of an option may not be reduced after the date of the option grant, other than to appropriately reflect changes in our capital structure.

The term of each option will be fixed by the compensation committee and may not exceed ten years from the date of grant. The compensation committee will determine at what time or times each option may be exercised. Options may be made exercisable in installments and the exercisability of options may be accelerated by the compensation committee. In general, unless otherwise permitted by the compensation committee, no option granted under the 2009 Plan is transferable by the optionee other than by will or by the laws of descent and distribution, and options may be exercised during the optionee's lifetime only by the optionee, or by the optionee's legal representative or guardian in the case of the optionee's incapacity.

Upon exercise of options, the option exercise price must be paid in full either in cash or by check or other instrument acceptable to the compensation committee. To the extent provided for in the applicable option agreement or approved by the compensation committee, in its sole discretion, and permitted under applicable law, the exercise price may be paid by delivery (or attestation to the ownership) of shares of common stock that are beneficially owned by the optionee. Except as otherwise provided in the applicable option agreement, the exercise price may also be delivered to the company by a broker pursuant to irrevocable instructions to the broker from the optionee. In addition, the compensation committee may permit non-qualified options to be exercised using a net exercise feature which reduces the number of shares issued to the optionee by the number of shares with a fair market value equal to the exercise price.

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To qualify as incentive options, options must meet additional federal tax requirements, including a \$100,000 limit on the value of shares subject to incentive options that first become exercisable by a participant in any one calendar year.

Automatic Grants to Non-Employee Directors. The 2009 Plan provides for the automatic grant of a non-qualified stock option to purchase 30,000 shares of common stock to each non-employee director upon commencement of service on the board of directors. In addition, each non-employee director who is both serving as a director of the company immediately prior to and immediately following the annual meeting of stockholders is automatically granted a non-qualified stock option to purchase 15,000 shares of common stock on the date of such annual meeting; provided that a director shall not be eligible to receive an annual grant until such director has served on the board of directors for at least six months. In addition, on the date of each annual meeting of stockholders, the chairman of the audit committee is granted a non-qualified stock option to purchase 10,000 shares of common stock. The exercise price of the automatically granted stock options is equal to 100% of the fair market value of the common stock on the date of grant. Initial stock option grants to directors vest as to one-third of the shares subject to the stock option on each of the first three anniversaries of the date of grant provided the individual is serving as a director on such dates. Annual stock options vests in full on the first anniversary of the date of grant provided that the individual is serving on the board of directors on such date. The automatically granted stock options expire on the earlier of ten years after the date of grant or three months following cessation of service on the board of directors.

Stock Appreciation Rights. The compensation committee may award stock appreciation rights subject to such conditions and restrictions as the compensation committee may determine. Stock appreciation rights entitle the recipient to shares of common stock equal to the value of the appreciation in the stock price over the measurement price. The measurement price is the fair market value of the common stock on the date of grant. The maximum term of a stock appreciation right is ten years.

Restricted Stock. The compensation committee may award shares of common stock to participants subject to such conditions and restrictions as the compensation committee may determine. These conditions and restrictions may include the achievement of certain performance goals (as summarized above) and/or continued employment with us through a specified restricted period. However, except in the case of retirement, death, disability or a merger, consolidation, sale, reorganization, recapitalization or change in control, restricted stock awards that vest based solely on the passage of time shall be zero percent vested prior to the first anniversary of the date of grant, no more than one-third vested prior to the second anniversary of the date of grant and no more than two-thirds vested prior to the third anniversary of the date of grant (or, in the case of awards to non-employee directors, if earlier, the dates of the first, second and third annual meetings, respectively, held after the date of grant) and restricted stock awards that do not vest solely based on the passage of time shall not vest prior to the first anniversary of the date of grant (or, in the case of awards to non-employee directors, if earlier, the date of the first annual meeting held after the date of grant). The restrictions on vesting described above shall not apply to restricted stock awards and restricted stock unit awards granted for up to an aggregate of 10 percent of the maximum number of authorized shares under the 2009 Plan.

Restricted Stock Units. The compensation committee may award restricted stock units to any participants. Restricted stock units are ultimately payable in the form of shares of common stock or cash and may be subject to such conditions and restrictions as the compensation committee may determine. These conditions and restrictions may include the achievement of certain performance goals (as summarized above) and/or continued employment with the company through a specified vesting period. However, except in the case of retirement, death, disability or a merger, consolidation, sale, reorganization, recapitalization or change in control, restricted stock units that vest based solely on the passage of time shall be zero percent vested prior to the first anniversary of the date of grant, no more than one-third vested prior to the second anniversary of the date of grant and no more than two-thirds vested prior to the third anniversary of the date of grant (or, in the case of awards to non-employee directors, if earlier, the dates of the first, second and third annual meetings, respectively, held after the date of grant) and restricted stock units that do not vest solely based on the passage of time shall not vest prior to the first anniversary of the date of grant (or, in the case of awards to non-employee directors, if earlier,

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the date of the first annual meeting held after the date of grant). The restrictions on vesting described above shall not apply to restricted stock units and restricted stock awards granted for an aggregate of up to 10 percent of the maximum number of authorized shares. The compensation committee may, in its discretion, provide that settlement of restricted stock units shall be deferred, on a mandatory basis or at the election of a participant, in a manner that complies with Section 409A of the Code. To the extent provided by the compensation committee, in its sole discretion, a grant of restricted stock units may provide a participant with the right to receive dividend equivalents.

Other Stock-Based Awards. Other awards of shares of common stock, and other awards that are valued in whole or in part by reference to, or are otherwise based on, shares of common stock or other property, may be granted under the 2009 Plan, including without limitation awards entitling recipients to receive shares of common stock to be delivered in the future. Such other stock-based awards shall also be available as a form of payment in the settlement of other awards granted under the 2009 Plan or as payment in lieu of compensation to which a participant is otherwise entitled. Other stock-based awards may be paid in shares of common stock or cash, as the compensation committee shall determine. However, except in the case of retirement, death, disability or a merger, consolidation, sale, reorganization, recapitalization or change in control, other stock-based awards that vest based solely on the passage of time shall be zero percent vested prior to the first anniversary of the date of grant, no more than one-third vested prior to the second anniversary of the date of grant and no more than two-thirds vested prior to the third anniversary of the date of grant (or, in the case of awards to non-employee directors, if earlier, the dates of the first, second and third annual meetings, respectively, held after the date of grant) and other stock-based awards that do not vest solely based on the passage of time shall not vest prior to the first anniversary of the date of grant (or, in the case of awards to non-employee directors, if earlier, the date of the first annual meeting held after the date of grant). The restrictions on vesting described above shall not apply to other stock-based awards granted for an aggregate of up to 10 percent of the maximum number of authorized shares.

Performance Awards. The compensation committee may grant performance awards to any participant which entitle the recipient to receive shares of common stock upon the achievement of certain performance goals (as summarized above) and such other conditions as the compensation committee shall determine. The compensation committee may not waive the achievement of the applicable performance measures except in the case of the death or disability of the participant or a change in control of the company.

Change of Control Provision for Awards Other than Restricted Stock and Restricted Stock Units. The 2009 Plan provides that upon the effectiveness of a reorganization event as defined in the 2009 Plan, the compensation committee may take any one or more of the following actions as to any or all outstanding awards other than restricted stock awards and restricted stock units on such terms as the compensation committee determines: (1) provide that awards shall be assumed, or substantially equivalent awards shall be substituted, by the acquiring or succeeding corporation (or an affiliate thereof); (2) upon written notice to a participant, provide that the participant's unexercised awards will terminate immediately prior to the consummation of such reorganization event unless exercised by the participant within a specified period following the date of such notice; (3) provide that outstanding awards shall become exercisable, realizable, or deliverable, or restrictions applicable to an award shall lapse, in whole or in part prior to or upon such reorganization event; (4) in the event of a reorganization event in which holders of common stock will receive a cash payment for each share surrendered, make or provide for a cash payment to participants equal to the excess, if any, of (A) the per share price to be paid to holders of common stock in the reorganization event multiplied by the number of shares of common stock subject to the participant's awards over (B) the aggregate exercise price of all such outstanding awards and any applicable tax withholdings, in exchange for the termination of such awards; (5) provide that, in connection with a liquidation or dissolution of the company, awards shall convert into the right to receive liquidation proceeds (if applicable, net of the exercise price thereof and any applicable tax withholdings); and (6) any combination of the foregoing.

Change in Control Provision for Restricted Stock and Restricted Stock Units. Under the 2009 Plan, upon the occurrence of a reorganization event other than a liquidation or dissolution of the company, the repurchase and

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other rights of the company under each outstanding restricted stock award and restricted stock unit shall inure to the benefit of the company's successor and shall, unless the compensation committee determines otherwise, apply to the cash, securities or other property that the common stock is converted into or exchanged for pursuant to such reorganization event in the same manner and to the same extent as they applied to the common stock subject to such restricted stock award or restricted stock unit. However, the compensation committee may provide for termination or deemed satisfaction of such repurchase or other rights under the instrument evidencing any restricted stock award or restricted stock unit or any other agreement between a participant and the company. Upon the occurrence of a reorganization event involving the liquidation or dissolution of the company, except to the extent specifically provided to the contrary in the instrument evidencing any restricted stock award or restricted stock unit or any other agreement between a participant and the company, all restrictions and conditions on all restricted stock awards and restricted stock units then outstanding shall automatically be deemed terminated or satisfied.

Adjustments for Stock Dividends, Stock Splits, Etc. The 2009 Plan requires that the compensation committee make appropriate adjustments to the number of shares of common stock that are subject to the 2009 Plan, to certain limits in the 2009 Plan, and to any outstanding awards to reflect stock dividends, stock splits, extraordinary cash dividends and similar events.

Tax Withholding. Participants in the 2009 Plan are responsible for the payment of any federal, state or local taxes that the company is required by law to withhold upon the exercise of options or stock appreciation rights or vesting of other awards. Subject to approval by the compensation committee, participants may elect to have the minimum tax withholding obligations satisfied by authorizing the company to withhold shares of common stock to be issued pursuant to the exercise or vesting.

Amendments and Termination. The board of directors may at any time amend, suspend or terminate the 2009 Plan and, subject to certain restrictions, and the compensation committee may at any time amend, modify or terminate any outstanding award. However, the participant's consent shall be required for such amendment, modification or termination unless the compensation committee determines that such action does not materially and adversely affect the participant's rights or such action is permitted by the 2009 Plan in connection with a reorganization event. To the extent required under the rules of the NASDAQ Global Market, any amendments that materially change the terms of the 2009 Plan will be subject to approval by our stockholders. Amendments shall also be subject to approval by our stockholders if and to the extent determined by the compensation committee to be required by the Code to preserve the qualified status of incentive stock options.

Effective Date of 2009 Plan. The board of directors originally adopted the 2009 Plan on April 16, 2009 and approved the proposed amendment to the 2009 Plan on March 20, 2013. The amendment to increase the number of authorized shares under the 2009 Plan will become effective on the date it is approved by stockholders. No awards may be granted under the 2009 Plan after June 10, 2019. If the 2009 Plan, as proposed to be amended, is not approved by stockholders, the 2009 Plan will continue in effect until it expires, and awards may be granted thereunder, in accordance with its terms.

Table of Contents**New Plan Benefits**

Other than the automatic option grants to directors, the grant of awards under the 2009 Plan is within the discretion of the compensation committee. Accordingly, the company cannot determine the dollar value or number of shares of common stock that will in the future be received by or allocated to any participant in the 2009 Plan. In lieu of providing information regarding benefits that will be received under the 2009 Plan, the following table provides information concerning the benefits that were received by the following persons and groups during fiscal year 2012: each named executive officer; all current executive officers, as a group; all current directors who are not executive officers, as a group; and all employees who are not executive officers, as a group.

Name and Position	Options		Restricted Stock	
	Average Exercise Price (\$)	Number (#)	Dollar Value \$(1)	Number (#)
John M. Maraganore, Ph.D.	18.66	150,000		
<i>Chief Executive Officer</i>				
Barry E. Greene	18.66	100,000		
<i>President and Chief Operating Officer</i>				
Akshay K. Vaishnaw, M.D., Ph.D.	18.66	50,000	229,731	12,588
<i>Executive Vice President and Chief Medical Officer</i>				
Laurence E. Reid, Ph.D.	18.66	40,000	196,206	10,751
<i>Senior Vice President and Chief Business Officer</i>				
Michael P. Mason	18.66	10,000	143,208	7,847
<i>Vice President of Finance and Treasurer</i>				
All current executive officers, as a group	18.66	350,000	569,145	31,186
All current directors who are not executive officers, as a group	11.33	130,000		
All current employees who are not executive officers, as a group	17.18	723,086	8,512,512	466,439

(1) The dollar value of restricted stock awards is based on the number of shares of restricted stock granted times the closing price of our common stock on the NASDAQ Global Market on December 31, 2012.

Tax Aspects Under the Code

The following is a summary of the principal federal income tax consequences of certain transactions under the 2009 Plan. It does not describe all federal tax consequences under the 2009 Plan, nor does it describe state or local tax consequences.

Incentive Options. No taxable income is generally realized by the optionee upon the grant or exercise of an incentive option. If shares of common stock issued to an optionee pursuant to the exercise of an incentive option are sold or transferred after two years from the date of grant and after one year from the date of exercise, then (i) upon sale of such shares, any amount realized in excess of the option price (the amount paid for the shares) will be taxed to the optionee as a long-term capital gain, and any loss sustained will be a long-term capital loss, and (ii) the company will not be entitled to any deduction for federal income tax purposes. The exercise of an incentive option will give rise to an item of tax preference that may result in alternative minimum tax liability for the optionee.

If shares of common stock acquired upon the exercise of an incentive option are disposed of prior to the expiration of the two-year and one-year holding periods described above (a disqualifying disposition), generally (i) the optionee will realize ordinary income in the year of disposition in an amount equal to the excess (if any) of the fair market value of the shares of common stock at exercise (or, if less, the amount realized on a

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sale of such shares of common stock) over the option price thereof, and (ii) the company would be entitled to deduct such amount. Special rules will apply where all or a portion of the exercise price of the incentive option is paid by tendering shares of common stock.

If an incentive option is exercised at a time when it no longer qualifies for the tax treatment described above, the option is treated as a non-qualified option. Generally, an incentive option will not be eligible for the tax treatment described above if it is exercised more than three months following termination of employment (or one year in the case of termination of employment by reason of disability). In the case of termination of employment by reason of death, the three-month rule does not apply.

Non-Qualified Options. No income is realized by the optionee at the time the option is granted. Generally (i) at exercise, ordinary income is realized by the optionee in an amount equal to the difference between the option price and the fair market value of the shares of common stock on the date of exercise, and the company receives a tax deduction for the same amount, and (ii) at disposition, appreciation or depreciation after the date of exercise is treated as either short-term or long-term capital gain or loss depending on how long the shares of common stock have been held. Special rules will apply where all or a portion of the exercise price of the non-qualified option is paid by tendering shares of common stock. Upon exercise, the optionee will also be subject to Social Security taxes on the excess of the fair market value over the exercise price of the option.

Other Awards. The company generally will be entitled to a tax deduction in connection with an award under the 2009 Plan in an amount equal to the ordinary income realized by the participant at the time the participant recognizes such income. Participants typically are subject to income tax and recognize such tax at the time that an award is exercised, vests or becomes non-forfeitable, unless the award provides for a further deferral.

Parachute Payments. The vesting of any portion of an option or other award that is accelerated due to the occurrence of a change in control (such as a sale event) may cause a portion of the payments with respect to such accelerated awards to be treated as parachute payments as defined in the Code. Any such parachute payments may be non-deductible to the company, in whole or in part, and may subject the recipient to a non-deductible 20% federal excise tax on all or a portion of such payment (in addition to other taxes ordinarily payable).

Limitation on Deductions. Under Section 162(m) of the Code, the company's deduction for certain awards under the 2009 Plan may be limited to the extent that the Chief Executive Officer or other executive officer whose compensation is required to be reported in the summary compensation table (other than the Principal Financial Officer) receives compensation in excess of one million dollars a year (other than performance-based compensation that otherwise meets the requirements of Section 162(m) of the Code). The 2009 Plan is structured to allow certain awards to qualify as performance-based compensation.

Board Recommendation

Our Board of Directors believes that our future success depends, in large part, upon our ability to maintain a competitive position in attracting, retaining and motivating key personnel. Accordingly, our board believes adoption of the 2009 Plan, as amended, is in the best interests of Alnylam and our stockholders and recommends a vote FOR this proposal.

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PROPOSAL 3 ADVISORY VOTE ON EXECUTIVE COMPENSATION

We are providing our stockholders with the opportunity to vote to approve, on an advisory, non-binding basis, the compensation of our named executive officers as disclosed in this proxy statement in accordance with the SEC's rules. This proposal, which is commonly referred to as "say-on-pay," is required by the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, which added Section 14A to the Exchange Act.

We encourage stockholders to read closely the "Executive Compensation" section of this proxy statement beginning with the "Compensation Discussion and Analysis" on page 25, which describes in detail our executive compensation programs and the decisions made by our compensation committee and our board with respect to the fiscal year ended December 31, 2012.

As we describe in the "Compensation Discussion and Analysis," we maintain straight-forward executive compensation programs that consist almost entirely of base salary, an annual cash incentive bonus and annual equity awards. These elements of compensation have been selected by our compensation committee because the committee believes that they effectively achieve the fundamental goals of our compensation program, which are to attract, motivate and retain qualified and talented executives, who are critical to our success, motivating them to achieve our business goals and rewarding them for superior short- and long-term performance. The goal of our compensation committee is to ensure that our compensation programs are aligned with the interests of our stockholders and our business goals in order to attain our ultimate objective of increasing stockholder value. We believe that, consistent with these goals, the total compensation paid to each of our named executive officers is fair, reasonable and competitive. Further, we believe our programs do not encourage excessive risk-taking by management.

With very limited exceptions, we do not provide any compensation or benefit plans to executive officers that are not also available to other employees. We differentiate among executive officers primarily based on size of annual cash incentive awards and annual equity awards and, to a lesser extent, base salary. Annual compensation decisions for executive officers are made by our compensation committee based on the achievement of specified corporate performance goals as described under "Compensation Discussion and Analysis."

Our board of directors is asking stockholders to approve, on a non-binding advisory basis, the following resolution:

RESOLVED, that the compensation paid to the named executive officers of Alnylam Pharmaceuticals, Inc., as disclosed pursuant to the compensation disclosure rules of the SEC, including the compensation discussion and analysis, the compensation tables and any related material disclosed in the proxy statement of Alnylam Pharmaceuticals, Inc., is hereby approved.

As an advisory vote, this proposal is not binding. The outcome of this advisory vote will not overrule any decision by us or our board of directors (or any committee thereof). However, our compensation committee and board of directors value the opinions expressed by our stockholders in their vote on this proposal and will consider the outcome of the vote when making future compensation decisions for named executive officers.

Board Recommendation

Our board of directors recommends that you vote to approve the compensation of our named executive officers by voting **FOR Proposal 3.**

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PROPOSAL 4 RATIFICATION OF APPOINTMENT OF INDEPENDENT AUDITORS

Our board has appointed the firm of PricewaterhouseCoopers LLP, an independent registered public accounting firm, as independent auditors for the fiscal year ending December 31, 2013. Although stockholder approval of our board's appointment of PricewaterhouseCoopers LLP is not required by law, our board believes that it is advisable to give stockholders an opportunity to ratify this appointment. If this proposal is not approved at the annual meeting, our board will reconsider its appointment of PricewaterhouseCoopers LLP. Representatives of PricewaterhouseCoopers LLP are expected to be present at the annual meeting and will have the opportunity to make a statement, if they desire to do so, and will be available to respond to appropriate questions from our stockholders.

Board Recommendation

Our board of directors recommends a vote FOR the ratification of the appointment of PricewaterhouseCoopers LLP as our independent auditors for the fiscal year ending December 31, 2013.

OTHER MATTERS

Our board of directors does not know of any other matters which may come before the meeting. However, if any other matters are properly presented to the meeting, it is the intention of the persons named in the accompanying proxy card to vote, or otherwise act, in accordance with their judgment on those matters.

STOCKHOLDER PROPOSALS

In order to be included in the proxy materials for the 2014 annual meeting of stockholders, stockholders' proposals must be received by us at our principal executive offices, 300 Third Street, Cambridge, Massachusetts 02142 no later than December 25, 2013. We suggest that proponents submit their proposals by certified mail, return receipt requested, addressed to our Corporate Secretary.

In addition, our bylaws require that we be given advance notice of stockholder nominations for election to our board of directors and of other matters which stockholders wish to present for action at an annual meeting of stockholders, other than matters included in our proxy statement. The required notice must be in writing and received by our corporate secretary at our principal offices not later than March 8, 2014 (90 days prior to the first anniversary of our 2013 annual meeting of stockholders) and not before February 6, 2014 (120 days prior to the first anniversary of our 2013 annual meeting of stockholders). However, if the 2014 annual meeting of stockholders is advanced by more than 20 days, or delayed by more than 60 days, from the first anniversary of the 2013 annual meeting of stockholders, notice must be received not earlier than the 120th day prior to such annual meeting and not later than the close of business on the later of (1) the 90th day prior to such annual meeting and (2) the 10th day following the date on which notice of the date of such annual meeting was mailed or public disclosure of the date of such annual meeting was made, whichever occurs first. Our bylaws also specify requirements relating to the content of the notice which stockholders must provide, including a stockholder nomination for election to our board of directors, to be properly presented at the 2014 annual meeting of stockholders.

OUR BOARD OF DIRECTORS ENCOURAGES STOCKHOLDERS TO ATTEND THE ANNUAL MEETING. WHETHER OR NOT YOU PLAN TO ATTEND IN PERSON, YOU ARE URGED TO VOTE BY PROXY OVER THE INTERNET, BY TELEPHONE OR BY MAIL AS DESCRIBED IN THE ENCLOSED PROXY CARD. A PROMPT RESPONSE WILL GREATLY FACILITATE ARRANGEMENTS FOR THE ANNUAL MEETING AND YOUR COOPERATION WILL BE APPRECIATED. STOCKHOLDERS WHO ATTEND THE ANNUAL MEETING MAY VOTE THEIR STOCK PERSONALLY EVEN THOUGH THEY HAVE SUBMITTED A PROXY PREVIOUSLY.

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Appendix A

ALNYLAM PHARMACEUTICALS, INC.

2009 STOCK INCENTIVE PLAN, AS AMENDED

1. Purpose

The purpose of this 2009 Stock Incentive Plan, as amended (the *Plan*), of Alnylam Pharmaceuticals, Inc., a Delaware corporation (the *Company*), is to advance the interests of the Company's stockholders by enhancing the Company's ability to attract, retain and motivate persons who are expected to make important contributions to the Company by providing such persons with equity ownership opportunities and performance-based incentives that are intended to better align the interests of such persons with those of the Company's stockholders. Except where the context otherwise requires, the term *Company* shall include any of the Company's present or future parent or subsidiary corporations as defined in Sections 424(e) or (f) of the Internal Revenue Code of 1986, as amended, and any regulations promulgated thereunder (the *Code*) and any other business venture (including, without limitation, joint venture or limited liability company) in which the Company has a controlling interest, as determined by the Board of Directors of the Company (the *Board*).

2. Eligibility

All of the Company's employees, officers and directors are eligible to be granted options, stock appreciation rights (*SARs*), restricted stock, restricted stock units (*RSUs*) and other stock-based awards (each, an *Award*) under the Plan. Consultants and advisors to the Company (as such terms are defined and interpreted for purposes of Form S-8 (or any successor form)) are also eligible to be granted Awards. Each person who is granted an Award under the Plan is deemed a *Participant*.

3. Administration and Delegation

(a) Administration by Board of Directors. The Plan will be administered by the Board. The Board shall have authority to grant Awards and to adopt, amend and repeal such administrative rules, guidelines and practices relating to the Plan as it shall deem advisable. The Board may construe and interpret the terms of the Plan and any Award agreements entered into under the Plan. The Board may correct any defect, supply any omission or reconcile any inconsistency in the Plan or any Award in the manner and to the extent it shall deem expedient to carry the Plan into effect and it shall be the sole and final judge of such expediency. All decisions by the Board shall be made in the Board's sole discretion and shall be final and binding on all persons having or claiming any interest in the Plan or in any Award.

(b) Appointment of Committees. To the extent permitted by applicable law, the Board may delegate any or all of its powers under the Plan to one or more committees or subcommittees of the Board (a *Committee*). All references in the Plan to the *Board* shall mean the Board or a Committee of the Board or the officers referred to in Section 3(c) to the extent that the Board's powers or authority under the Plan have been delegated to such Committee or officers.

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(c) **Delegation to Officers.** To the extent permitted by applicable law, the Board may delegate to one or more officers of the Company the power to grant Options and other Awards that constitute rights under Delaware law (subject to any limitations under the Plan) to employees or officers of the Company or any of its present or future subsidiary corporations and to exercise such other powers under the Plan as the Board may determine, provided that the Board shall fix the terms of the Awards to be granted by such officers (including the exercise price of the Awards, which may include a formula by which the exercise price will be determined) and the maximum number of shares subject to such Awards that the officers may grant; provided further, however, that no officer shall be authorized to grant Awards to any executive officer of the Company (as defined by Rule 3b-7 under the Securities Exchange Act of 1934, as amended (the *Exchange Act*)) or to any officer of the Company (as defined by Rule 16a-1 under the Exchange Act). The Board may not delegate authority under this Section 3(c) to grant restricted stock, unless Delaware law then permits such delegation.

(d) **Awards to Non-Employee Directors.** Discretionary Awards to non-employee directors will only be granted and administered by a Committee, all of the members of which are independent as defined by Section 4200(a)(15) of the Nasdaq Marketplace Rules.

4. **Stock Available for Awards**

(a) **Number of Shares; Share Counting.**

(1) **Authorized Number of Shares.** Subject to adjustment under Section 10, Awards may be made under the Plan for up to 5,900,000 shares of common stock, \$0.01 par value per share, of the Company (the *Common Stock*), any or all of which Awards may be in the form of Incentive Stock Options. Shares issued under the Plan may consist in whole or in part of authorized but unissued shares or treasury shares.

(2) **Fungible Share Pool.** Subject to adjustment under Section 10, any Award that is not a Full-Value Award shall be counted against the share limits specified in Sections 4(a)(1) and 4(b)(2) as one share for each share of Common Stock subject to such Award and any Award that is a Full-Value Award shall be counted against the share limits specified in Sections 4(a)(1) and 4(b)(2) as 1.5 shares for each one share of Common Stock subject to such Full-Value Award. *Full-Value Award* means any Restricted Stock Award or Other Stock-Based Award (each as defined below). To the extent a share that was subject to an Award that counted as one share is returned to the Plan pursuant to Section 4(a)(3), each applicable share reserve will be credited with one share. To the extent that a share that was subject to a Full-Value Award that counted as 1.5 shares is returned to the Plan pursuant to Section 4(a)(3), each applicable share reserve will be credited with 1.5 shares.

(3) **Share Counting.** For purposes of counting the number of shares available for the grant of Awards under the Plan and under the sublimits contained in Section 4(b)(2), (i) all shares of Common Stock covered by independent SARs shall be counted against the number of shares available for the grant of Awards; *provided, however*, that independent SARs that may be settled only in cash shall not be so counted; (ii) if any Award (A) expires or is terminated, surrendered or canceled without having been fully exercised or is forfeited in whole or in part (including as the result of shares of Common Stock subject to such Award being repurchased by

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the Company at the original issuance price pursuant to a contractual repurchase right) or (B) results in any Common Stock not being issued (including as a result of an independent SAR that was settleable either in cash or in stock actually being settled in cash), the unused Common Stock covered by such Award shall again be available for the grant of Awards; *provided, however*, in the case of Incentive Stock Options (as hereinafter defined), the foregoing shall be subject to any limitations under the Code; and provided further, in the case of independent SARs, that the full number of shares subject to any stock-settled SAR shall be counted against the shares available under the Plan and against the sublimits listed in the first clause of this Section in proportion to the portion of the SAR actually exercised regardless of the number of shares actually used to settle such SAR upon exercise; (iii) shares of Common Stock delivered (by actual delivery, attestation, or net exercise) to the Company by a Participant to (A) purchase shares of Common Stock upon the exercise of an Award or (B) satisfy tax withholding obligations (including shares retained from the Award creating the tax obligation) shall not be added back to the number of shares available for the future grant of Awards; and (iv) shares of Common Stock repurchased by the Company on the open market using the proceeds from the exercise of an Award shall not increase the number of shares available for future grant of Awards.

(b) Sub-limits. Subject to adjustment under Section 10, the following sub-limits on the number of shares subject to Awards shall apply:

(1) Section 162(m) Per-Participant Limit. The maximum number of shares of Common Stock with respect to which Awards may be granted to any Participant under the Plan shall be 500,000 per calendar year, except in the calendar year in which the Participant is hired by the Company, in which case the maximum number of shares shall be 1,000,000. For purposes of the foregoing limit, the combination of an Option in tandem with a SAR (as each is hereafter defined) shall be treated as a single Award. The per Participant limit described in this Section 4(b)(1) shall be construed and applied consistently with Section 162(m) of the Code or any successor provision thereto, and the regulations thereunder (***Section 162(m)***).

(2) Limit on Awards to Directors. Except for initial and annual grants provided under Section 6, the maximum number of shares with respect to which Awards may be granted to directors who are not employees of the Company at the time of grant shall be 5% of the maximum number of authorized shares set forth in Section 4(a)(1).

(c) Substitute Awards. In connection with a merger or consolidation of an entity with the Company or the acquisition by the Company of property or stock of an entity, the Board may grant awards in substitution for any options, stock or stock-based awards granted by such entity or an affiliate thereof. Substitute Awards may be granted on such terms as the Board deems appropriate in the circumstances, notwithstanding any limitations on Awards contained in the Plan. Substitute Awards shall not count against the overall share limit set forth in Section 4(a)(1) or any sublimits contained in the Plan, except as may be required by reason of Section 422 and related provisions of the Code.

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5. Stock Options

(a) General. The Board may grant options to purchase Common Stock (each, an *Option*) and determine the number of shares of Common Stock to be covered by each Option, the exercise price of each Option and the conditions and limitations applicable to the exercise of each Option, including conditions relating to applicable federal or state securities laws, as it considers necessary or advisable. An Option that is not intended to be an Incentive Stock Option (as hereinafter defined) shall be designated a *Nonstatutory Stock Option* .

(b) Incentive Stock Options. An Option that the Board intends to be an incentive stock option as defined in Section 422 of the Code (an *Incentive Stock Option*) shall only be granted to employees of Alnylam Pharmaceuticals, Inc., any of Alnylam Pharmaceuticals, Inc.'s present or future parent or subsidiary corporations as defined in Sections 424(e) or (f) of the Code, and any other entities the employees of which are eligible to receive Incentive Stock Options under the Code, and shall be subject to and shall be construed consistently with the requirements of Section 422 of the Code. The Company shall have no liability to a Participant, or any other party, if an Option (or any part thereof) that is intended to be an Incentive Stock Option is not an Incentive Stock Option or if the Company converts an Incentive Stock Option to a Nonstatutory Stock Option.

(c) Exercise Price. The Board shall establish the exercise price of each Option and specify the exercise price in the applicable option agreement. The exercise price shall be not less than 100% of the Fair Market Value (as defined below) on the date the Option is granted; provided that if the Board approves the grant of an Option with an exercise price to be determined on a future date, the exercise price shall be not less than 100% of the Fair Market Value on such future date. *Fair Market Value* of a share of Common Stock for purposes of the Plan will be determined as follows:

(1) if the Common Stock trades on a national securities exchange, the closing sale price (for the primary trading session) on the date of grant;

(2) if the Common Stock does not trade on any such exchange, the average of the closing bid and asked prices as reported by an authorized OTCBB market data vendor as listed on the OTCBB website (otcbb.com) on the date of grant; or

(3) if the Common Stock is not publicly traded, the Board will determine the Fair Market Value for purposes of the Plan using any measure of value it determines to be appropriate (including, as it considers appropriate, relying on appraisals) in a manner consistent with the valuation principles under Section 409A of the Code, except as the Board or Committee may expressly determine otherwise.

For any date that is not a trading day, the Fair Market Value of a share of Common Stock for such date will be determined by using the closing sale price or average of the bid and asked prices, as appropriate, for the immediately preceding trading day and with the timing in the formulas above adjusted accordingly. The Board can substitute a particular time of day or other measure of closing sale price or bid and asked prices if appropriate because of exchange or market procedures or can, in its sole discretion, use weighted averages either on a daily basis or

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such longer period as complies with Section 409A of the Code. The Board has sole discretion to determine the Fair Market Value for purposes of this Plan, and all Awards are conditioned on the participants' agreement that the Board's determination is conclusive and binding even though others might make a different determination.

(d) Duration of Options. Each Option shall be exercisable at such times and subject to such terms and conditions as the Board may specify in the applicable option agreement; *provided, however*, that no Option will be granted for a term in excess of 10 years.

(e) Exercise of Option. Options may be exercised by delivery to the Company of a written notice of exercise signed by the proper person or by any other form of notice (including electronic notice) approved by the Company, together with payment in full as specified in Section 5(f) for the number of shares for which the Option is exercised. Shares of Common Stock subject to the Option will be delivered by the Company as soon as practicable following exercise.

(f) Payment Upon Exercise. Common Stock purchased upon the exercise of an Option granted under the Plan shall be paid for as follows:

(1) in cash or by check, payable to the order of the Company;

(2) except as may otherwise be provided in the applicable option agreement, by (i) delivery of an irrevocable and unconditional undertaking by a creditworthy broker to deliver promptly to the Company sufficient funds to pay the exercise price and any required tax withholding or (ii) delivery by the Participant to the Company of a copy of irrevocable and unconditional instructions to a creditworthy broker to deliver promptly to the Company cash or a check sufficient to pay the exercise price and any required tax withholding;

(3) to the extent provided for in the applicable option agreement or approved by the Board, in its sole discretion, by delivery (either by actual delivery or attestation) of shares of Common Stock owned by the Participant valued at their Fair Market Value, provided (i) such method of payment is then permitted under applicable law, (ii) such Common Stock, if acquired directly from the Company, was owned by the Participant for such minimum period of time, if any, as may be established by the Board in its discretion and (iii) such Common Stock is not subject to any repurchase, forfeiture, unfulfilled vesting or other similar requirements;

(4) to the extent provided for in the applicable Nonstatutory Stock Option agreement or approved by the Board in its sole discretion, by delivery of a notice of net exercise to the Company, as a result of which the Participant would receive the number of shares of Common Stock underlying the Option so exercised reduced by the number of shares of Common Stock equal to the aggregate exercise price of the Option divided by the Fair Market Value on the date of exercise;

(5) to the extent permitted by applicable law and provided for in the applicable Option agreement or approved by the Board, in its sole discretion, by payment of such other lawful consideration as the Board may determine; or

(6) by any combination of the above permitted forms of payment.

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(g) Limitation on Repricing. Unless such action is approved by the Company's stockholders: (1) no outstanding Option granted under the Plan may be amended to provide an exercise price per share that is lower than the then-current exercise price per share of such outstanding Option (other than adjustments pursuant to Section 10) and (2) the Board may not cancel any outstanding option (whether or not granted under the Plan) and grant in substitution therefor new Awards under the Plan covering the same or a different number of shares of Common Stock and having an exercise price per share lower than the then-current exercise price per share of the cancelled option.

6. Director Options

(a) Initial Grant. Upon the commencement of service on the Board by any individual who is not then an employee of the Company or any subsidiary of the Company, the Company shall grant to such person a Nonstatutory Stock Option to purchase 30,000 shares of Common Stock (subject to adjustment under Section 10).

(b) Annual Grant. On the date of each annual meeting of stockholders of the Company, the Company shall grant to each member of the Board who is both serving as a director of the Company immediately prior to and immediately following such annual meeting and who is not then an employee of the Company or any of its subsidiaries, a Nonstatutory Stock Option to purchase 15,000 shares of Common Stock (subject to adjustment under Section 10); *provided, however*, that a director shall not be eligible to receive an option grant under this Section 6(b) until such director has served on the Board for at least six months. In addition, on the date of each annual meeting of stockholders of the Company, the Company shall grant a Nonstatutory Stock Option to purchase an additional 10,000 shares of Common Stock (subject to adjustment under Section 10) to the Chairman of the Audit Committee of the Board.

(c) Terms of Director Options. Options granted under this Section 6 shall (i) have an exercise price equal to the Fair Market Value on the date of grant, (ii) vest in full on the first anniversary of the date of grant provided that the individual is serving on the Board on such date (or, in the case of Options granted under Section 6(a), as to one-third of the shares subject to the Option on each of the first, second and third anniversaries of the date of grant); provided that no additional vesting shall take place after the Participant ceases to serve as a director and further provided that the Board may provide for accelerated vesting in the case of death, disability, change in control, attainment of mandatory retirement age or retirement, (iii) expire on the earlier of 10 years from the date of grant or three months following cessation of service on the Board and (iv) contain such other terms and conditions as the Board shall determine.

(d) Board Discretion. The Board retains the specific authority to from time to time increase or decrease the number of shares subject to Options granted under this Section 6, subject to the limitation on the aggregate number of shares issuable to non-employee directors contained in Section 4(b)(2). The Board also retains the specific authority to issue SARs, Restricted Stock Awards or Other Stock-Based Awards in lieu of some or all of the Options otherwise issuable under this Section 6, subject to the limitation on the aggregate number of shares issuable to non-employee directors contained in Section 4(b)(2).

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7. Stock Appreciation Rights

(a) General. The Board may grant Awards consisting of SARs entitling the holder, upon exercise, to receive an amount of Common Stock or cash or a combination thereof (such form to be determined by the Board) determined by reference to appreciation, from and after the date of grant, in the Fair Market Value of a share of Common Stock over the measurement price established pursuant to Section 7(c). The date as of which such appreciation is determined shall be the exercise date.

(b) Grants. SARs may be granted in tandem with, or independently of, Options granted under the Plan.

(1) Tandem Awards. When SARs are expressly granted in tandem with Options, (i) the SAR will be exercisable only at such time or times, and to the extent, that the related Option is exercisable (except to the extent designated by the Board in connection with a Reorganization Event and will be exercisable in accordance with the procedure required for exercise of the related Option; (ii) the SAR will terminate and no longer be exercisable upon the termination or exercise of the related Option, except to the extent designated by the Board in connection with a Reorganization Event and except that a SAR granted with respect to less than the full number of shares covered by an Option will not be reduced until the number of shares as to which the related Option has been exercised or has terminated exceeds the number of shares not covered by the SAR; (iii) the Option will terminate and no longer be exercisable upon the exercise of the related SAR; and (iv) the SAR will be transferable only with the related Option.

(2) Independent SARs. A SAR not expressly granted in tandem with an Option will become exercisable at such time or times, and on such conditions, as the Board may specify in the SAR Award.

(c) Measurement Price. The Board shall establish the measurement price of each SAR and specify it in the applicable SAR agreement. The measurement price shall not be less than 100% of the Fair Market Value on the date the SAR is granted; provided that if the Board approves the grant of a SAR with a measurement price to be determined on a future date, the measurement price shall be not less than 100% of the Fair Market Value on such future date.

(d) Duration of SARs. Each SAR shall be exercisable at such times and subject to such terms and conditions as the Board may specify in the applicable SAR agreement; *provided, however*, that no SAR will be granted with a term in excess of 10 years.

(e) Exercise of SARs. SARs may be exercised by delivery to the Company of a written notice of exercise signed by the proper person or by any other form of notice (including electronic notice) approved by the Company, together with any other documents required by the Board.

(f) Limitation on Repricing. Unless such action is approved by the Company's stockholders: (1) no outstanding SAR granted under the Plan may be amended to provide an exercise price per share that is lower than the then-current exercise price per share of such outstanding SAR (other than adjustments pursuant to Section 10) and (2) the Board may not cancel any outstanding SAR (whether or not granted under the Plan) and grant in substitution

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therefor new Awards under the Plan covering the same or a different number of shares of Common Stock and having an exercise price per share lower than the then-current exercise price per share of the cancelled SAR.

8. **Restricted Stock; Restricted Stock Units**

(a) **General**. The Board may grant Awards entitling recipients to acquire shares of Common Stock (***Restricted Stock***), subject to the right of the Company to repurchase all or part of such shares at their issue price or other stated or formula price (or to require forfeiture of such shares if issued at no cost) from the recipient in the event that conditions specified by the Board in the applicable Award are not satisfied prior to the end of the applicable restriction period or periods established by the Board for such Award. Instead of granting Awards for Restricted Stock, the Board may grant Awards entitling the recipient to receive shares of Common Stock or cash to be delivered at the time such Award vests (***Restricted Stock Units***) (Restricted Stock and Restricted Stock Units are each referred to herein as a ***Restricted Stock Award***).

(b) **Terms and Conditions for All Restricted Stock Awards**. The Board shall determine the terms and conditions of a Restricted Stock Award, including the conditions for vesting and repurchase (or forfeiture) and the issue price, if any. Restricted Stock Awards that vest solely based on the passage of time shall be zero percent vested prior to the first anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the first annual meeting held after the date of grant), no more than one-third vested prior to the second anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the second annual meeting held after the date of grant), and no more than two-thirds vested prior to the third anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the third annual meeting held after the date of grant). Restricted Stock Awards that do not vest solely based on the passage of time shall not vest prior to the first anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the first annual meeting held after the date of grant). The two foregoing sentences shall not apply to (1) Performance Awards granted pursuant to Section 11(i) or (2) Restricted Stock Awards granted, in the aggregate, for up to 10% of the maximum number of authorized shares set forth in Section 4(a)(1). Notwithstanding any other provision of this Plan (other than Section 11(i), if applicable), the Board may, in its discretion, either at the time a Restricted Stock Award is made or at any time thereafter, waive its right to repurchase shares of Common Stock (or waive the forfeiture thereof) or remove or modify any part or all of the restrictions applicable to the Restricted Stock Award, provided that the Board may only exercise such rights in the following extraordinary circumstances: death, disability or retirement of the Participant, or a merger, consolidation, sale, reorganization, recapitalization, or change in control of the Company.

(c) **Additional Provisions Relating to Restricted Stock**.

(1) **Dividends**. Participants holding shares of Restricted Stock will be entitled to all ordinary cash dividends paid with respect to such shares, unless otherwise provided by the Board. Unless otherwise provided by the Board, if any dividends or distributions are paid in shares, or consist of a dividend or distribution to holders of Common Stock other than an

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ordinary cash dividend, the shares, cash or other property will be subject to the same restrictions on transferability and forfeitability as the shares of Restricted Stock with respect to which they were paid. Each dividend payment will be made no later than the end of the calendar year in which the dividends are paid to shareholders of that class of stock or, if later, the 15th day of the third month following the date the dividends are paid to shareholders of that class of stock.

(2) Stock Certificates. The Company may require that any stock certificates issued in respect of shares of Restricted Stock shall be deposited in escrow by the Participant, together with a stock power endorsed in blank, with the Company (or its designee). At the expiration of the applicable restriction periods, the Company (or such designee) shall deliver the certificates no longer subject to such restrictions to the Participant or if the Participant has died, to the beneficiary designated, in a manner determined by the Board, by a Participant to receive amounts due or exercise rights of the Participant in the event of the Participant's death (the *Designated Beneficiary*). In the absence of an effective designation by a Participant, *Designated Beneficiary* shall mean the Participant's estate.

(d) Additional Provisions Relating to Restricted Stock Units.

(1) Settlement. Upon the vesting of and/or lapsing of any other restrictions (i.e., settlement) with respect to each Restricted Stock Unit, the Participant shall be entitled to receive from the Company one share of Common Stock or an amount of cash equal to the Fair Market Value of one share of Common Stock, as provided in the applicable Award agreement. The Board may, in its discretion, provide that settlement of Restricted Stock Units shall be deferred, on a mandatory basis or at the election of the Participant in a manner that complies with Section 409A of the Code.

(2) Voting Rights. A Participant shall have no voting rights with respect to any Restricted Stock Units.

(3) Dividend Equivalents. To the extent provided by the Board, in its sole discretion, a grant of Restricted Stock Units may provide Participants with the right to receive an amount equal to any dividends or other distributions declared and paid on an equal number of outstanding shares of Common Stock (*Dividend Equivalents*). Dividend Equivalents may be paid currently or credited to an account for the Participants, may be settled in cash and/or shares of Common Stock and may be subject to the same restrictions on transfer and forfeitability as the Restricted Stock Units with respect to which paid, as determined by the Board in its sole discretion, subject in each case to such terms and conditions as the Board shall establish, in each case to be set forth in the applicable Award agreement.

9. Other Stock-Based Awards

(a) General. Other Awards of shares of Common Stock, and other Awards that are valued in whole or in part by reference to, or are otherwise based on, shares of Common Stock or other property, may be granted hereunder to Participants (*Other Stock-Based-Awards*), including without limitation Awards entitling recipients to receive shares of Common Stock to be delivered in the future. Such Other Stock-Based Awards shall also be available as a form of payment in the settlement of other Awards granted under the Plan or as payment in lieu of compensation to which a Participant is otherwise entitled. Other Stock-Based Awards may be paid in shares of Common Stock or cash, as the Board shall determine.

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(b) **Terms and Conditions.** Subject to the provisions of the Plan, the Board shall determine the terms and conditions of each Other Stock-Based Award, including any purchase price applicable thereto. Other Stock-Based Awards that vest solely based on the passage of time shall be zero percent vested prior to the first anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the first annual meeting held after the date of grant), no more than one-third vested prior to the second anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the second annual meeting held after the date of grant), and no more than two-thirds vested prior to the third anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the third annual meeting held after the date of grant). Other Stock-Based Awards that do not vest solely based on the passage of time shall not vest prior to the first anniversary of the date of grant (or, in the case of Awards to non-employee directors, if earlier, the date of the first annual meeting held after the date of grant). The two foregoing sentences shall not apply to (1) Performance Awards granted pursuant to Section 11(i) or (2) Other Stock-Based Awards granted, in the aggregate, for up to 10% of the maximum number of authorized shares set forth in Section 4(a)(1). Notwithstanding any other provision of this Plan (other than Section 11(i), if applicable), the Board may, in its discretion, either at the time an Other Stock-Based Award is made or at any time thereafter, waive its right to repurchase shares of Common Stock (or waive the forfeiture thereof) or remove or modify any part or all of the restrictions applicable to the Other Stock-Based Award, provided that the Board may only exercise such rights in the following extraordinary circumstances: death, disability or retirement of the Participant, or a merger, consolidation, sale, reorganization, recapitalization, or change in control of the Company.

10. **Adjustments for Changes in Common Stock and Certain Other Events**

(a) **Changes in Capitalization.** In the event of any stock split, reverse stock split, stock dividend, recapitalization, combination of shares, reclassification of shares, spin-off or other similar change in capitalization or event, or any dividend or distribution to holders of Common Stock other than an ordinary cash dividend, (i) the number and class of securities available under the Plan, (ii) the sub-limits, fungible pool and share counting rules set forth in Sections 4(a) and 4(b), (iii) the minimum vesting provisions of Restricted Stock Awards and Other Stock-Based Awards set forth in Sections 8(b) and 9(b), (iv) the number and class of securities and exercise price per share of each outstanding Option and each Option issuable under Section 6, (v) the share- and per-share provisions and the measurement price of each SAR, (vi) the number of shares subject to and the repurchase price per share subject to each outstanding Restricted Stock Award and (vii) the share- and per-share-related provisions and the purchase price, if any, of each outstanding Other Stock-Based Award, shall be equitably adjusted by the Company (or substituted Awards may be made, if applicable) in the manner determined by the Board. Without limiting the generality of the foregoing, in the event the Company effects a split of the Common Stock by means of a stock dividend and the exercise price of and the number of shares subject to an outstanding Option are adjusted as of the date of the distribution of the dividend (rather than as of the record date for such dividend), then an optionee who exercises an Option between the record date and the distribution date for such stock dividend

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shall be entitled to receive, on the distribution date, the stock dividend with respect to the shares of Common Stock acquired upon such Option exercise, notwithstanding the fact that such shares were not outstanding as of the close of business on the record date for such stock dividend.

(b) Reorganization Events.

(1) Definition. A **Reorganization Event** shall mean: (a) any merger or consolidation of the Company with or into another entity as a result of which all of the Common Stock of the Company is converted into or exchanged for the right to receive cash, securities or other property or is cancelled, (b) any transfer or disposition of all of the Common Stock of the Company for cash, securities or other property pursuant to a share exchange or other transaction or (c) any liquidation or dissolution of the Company.

(2) Consequences of a Reorganization Event on Awards Other than Restricted Stock Awards. In connection with a Reorganization Event, the Board may take any one or more of the following actions as to all or any (or any portion of) outstanding Awards other than Restricted Stock Awards on such terms as the Board determines: (i) provide that Awards shall be assumed, or substantially equivalent Awards shall be substituted, by the acquiring or succeeding corporation (or an affiliate thereof), (ii) upon written notice to a Participant, provide that the Participant's unexercised Awards will terminate immediately prior to the consummation of such Reorganization Event unless exercised by the Participant within a specified period following the date of such notice, (iii) provide that outstanding Awards shall become exercisable, realizable, or deliverable, or restrictions applicable to an Award shall lapse, in whole or in part prior to or upon such Reorganization Event, (iv) in the event of a Reorganization Event under the terms of which holders of Common Stock will receive upon consummation thereof a cash payment for each share surrendered in the Reorganization Event (the **Acquisition Price**), make or provide for a cash payment to a Participant equal to the excess, if any, of (A) the Acquisition Price times the number of shares of Common Stock subject to the Participant's Awards (to the extent the exercise price does not exceed the Acquisition Price) over (B) the aggregate exercise price of all such outstanding Awards and any applicable tax withholdings, in exchange for the termination of such Awards, (v) provide that, in connection with a liquidation or dissolution of the Company, Awards shall convert into the right to receive liquidation proceeds (if applicable, net of the exercise price thereof and any applicable tax withholdings) and (vi) any combination of the foregoing. In taking any of the actions permitted under this Section 10(b), the Board shall not be obligated by the Plan to treat all Awards, all Awards held by a Participant, or all Awards of the same type, identically.

For purposes of clause (i) above, an Option shall be considered assumed if, following consummation of the Reorganization Event, the Option confers the right to purchase, for each share of Common Stock subject to the Option immediately prior to the consummation of the Reorganization Event, the consideration (whether cash, securities or other property) received as a result of the Reorganization Event by holders of Common Stock for each share of Common Stock held immediately prior to the consummation of the Reorganization Event (and if holders were offered a choice of consideration, the type of consideration chosen by the holders of a majority of the outstanding shares of Common Stock); *provided, however*, that if the consideration received as a result of the Reorganization Event is not solely common stock of the acquiring or succeeding corporation (or an affiliate thereof), the Company may, with the consent

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of the acquiring or succeeding corporation, provide for the consideration to be received upon the exercise of Options to consist solely of common stock of the acquiring or succeeding corporation (or an affiliate thereof) equivalent in value (as determined by the Board) to the per share consideration received by holders of outstanding shares of Common Stock as a result of the Reorganization Event.

(3) Consequences of a Reorganization Event on Restricted Stock Awards. Upon the occurrence of a Reorganization Event other than a liquidation or dissolution of the Company, the repurchase and other rights of the Company under each outstanding Restricted Stock Award shall inure to the benefit of the Company's successor and shall, unless the Board determines otherwise, apply to the cash, securities or other property which the Common Stock was converted into or exchanged for pursuant to such Reorganization Event in the same manner and to the same extent as they applied to the Common Stock subject to such Restricted Stock Award; *provided, however*, that the Board may provide for termination or deemed satisfaction of such repurchase or other rights under the instrument evidencing any Restricted Stock Award or any other agreement between a Participant and the Company, either initially or by amendment. Upon the occurrence of a Reorganization Event involving the liquidation or dissolution of the Company, except to the extent specifically provided to the contrary in the instrument evidencing any Restricted Stock Award or any other agreement between a Participant and the Company, all restrictions and conditions on all Restricted Stock Awards then outstanding shall automatically be deemed terminated or satisfied.

11. General Provisions Applicable to Awards

(a) Transferability of Awards. Awards shall not be sold, assigned, transferred, pledged or otherwise encumbered by the person to whom they are granted, either voluntarily or by operation of law, except by will or the laws of descent and distribution or, other than in the case of an Incentive Stock Option, pursuant to a qualified domestic relations order, and, during the life of the Participant, shall be exercisable only by the Participant; *provided, however*, that the Board may permit or provide in an Award for the gratuitous transfer of the Award by the Participant to or for the benefit of any immediate family member, family trust or other entity established for the benefit of the Participant and/or an immediate family member thereof if, with respect to such proposed transferee, the Company would be eligible to use a Form S-8 for the registration of the sale of the Common Stock subject to such Award under the Securities Act of 1933, as amended; provided, further, that the Company shall not be required to recognize any such transfer until such time as the Participant and such permitted transferee shall, as a condition to such transfer, deliver to the Company a written instrument in form and substance satisfactory to the Company confirming that such transferee shall be bound by all of the terms and conditions of the Award. References to a Participant, to the extent relevant in the context, shall include references to authorized transferees.

(b) Documentation. Each Award shall be evidenced in such form (written, electronic or otherwise) as the Board shall determine. Each Award may contain terms and conditions in addition to those set forth in the Plan.

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(c) **Board Discretion.** Except as otherwise provided by the Plan, each Award may be made alone or in addition or in relation to any other Award. The terms of each Award need not be identical, and the Board need not treat Participants uniformly.

(d) **Termination of Status.** The Board shall determine the effect on an Award of the disability, death, termination or other cessation of employment, authorized leave of absence or other change in the employment or other status of a Participant and the extent to which, and the period during which, the Participant, or the Participant's legal representative, conservator, guardian or Designated Beneficiary, may exercise rights under the Award.

(e) **Withholding.** The Participant must satisfy all applicable federal, state, and local or other income and employment tax withholding obligations before the Company will deliver stock certificates or otherwise recognize ownership of Common Stock under an Award. The Company may decide to satisfy the withholding obligations through additional withholding on salary or wages. If the Company elects not to or cannot withhold from other compensation, the Participant must pay the Company the full amount, if any, required for withholding or have a broker tender to the Company cash equal to the withholding obligations. Payment of withholding obligations is due before the Company will issue any shares on exercise or release from forfeiture of an Award or, if the Company so requires, at the same time as is payment of the exercise price unless the Company determines otherwise. If provided for in an Award or approved by the Board in its sole discretion, a Participant may satisfy such tax obligations in whole or in part by delivery (either by actual delivery or attestation) of shares of Common Stock, including shares retained from the Award creating the tax obligation, valued at their Fair Market Value; *provided, however*, except as otherwise provided by the Board, that the total tax withholding where stock is being used to satisfy such tax obligations cannot exceed the Company's minimum statutory withholding obligations (based on minimum statutory withholding rates for federal and state tax purposes, including payroll taxes, that are applicable to such supplemental taxable income). Shares used to satisfy tax withholding requirements cannot be subject to any repurchase, forfeiture, unfulfilled vesting or other similar requirements.

(f) **Amendment of Award.** Except as otherwise provided in Sections 8(b) and 9(b) with respect to the vesting of Restricted Stock Awards and Other Stock-Based Awards, Section 11(i) with respect to Performance Awards or Section 12(d) with respect to actions requiring shareholder approval, the Board may amend, modify or terminate any outstanding Award, including but not limited to, substituting therefor another Award of the same or a different type, changing the date of exercise or realization, and converting an Incentive Stock Option to a Nonstatutory Stock Option. The Participant's consent to such action shall be required unless (i) the Board determines that the action, taking into account any related action, would not materially and adversely affect the Participant's rights under the Plan or (ii) the change is permitted under Section 10 hereof.

(g) **Conditions on Delivery of Stock.** The Company will not be obligated to deliver any shares of Common Stock pursuant to the Plan or to remove restrictions from shares previously delivered under the Plan until (i) all conditions of the Award have been met or removed to the satisfaction of the Company, (ii) in the opinion of the Company's counsel, all other legal matters in connection with the issuance and delivery of such shares have been satisfied, including any applicable securities laws and any applicable stock exchange or stock

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market rules and regulations, and (iii) the Participant has executed and delivered to the Company such representations or agreements as the Company may consider appropriate to satisfy the requirements of any applicable laws, rules or regulations.

(h) Acceleration. Except as otherwise provided in Sections 8(b), 9(b) and 11(i), the Board may at any time provide that any Award shall become immediately exercisable in full or in part, free of some or all restrictions or conditions, or otherwise realizable in full or in part, as the case may be.

(i) Performance Awards.

(1) Grants. Restricted Stock Awards and Other Stock-Based Awards under the Plan may be made subject to the achievement of performance goals pursuant to this Section 11(i) (*Performance Awards*), subject to the limit in Section 4(b)(1) on shares covered by such grants. Subject to Section 11(i)(4), no Performance Awards shall vest prior to the first anniversary of the date of grant.

(2) Committee. Grants of Performance Awards to any Covered Employee intended to qualify as performance-based compensation under Section 162(m) (*Performance-Based Compensation*) shall be made only by a Committee (or subcommittee of a Committee) comprised solely of two or more directors eligible to serve on a committee making Awards qualifying as performance-based compensation under Section 162(m). In the case of such Awards granted to Covered Employees, references to the Board or to a Committee shall be treated as referring to such Committee or subcommittee. *Covered Employee* shall mean any person who is, or whom the Committee, in its discretion, determines may be, a covered employee under Section 162(m)(3) of the Code.

(3) Performance Measures. For any Award that is intended to qualify as Performance-Based Compensation, the Committee shall specify that the degree of granting and vesting shall be subject to the achievement of one or more objective performance measures established by the Committee, which shall be based on the relative or absolute attainment of specified levels of one or any combination of the following: net income, earnings before or after discontinued operations, interest, taxes, depreciation and/or amortization, operating profit before or after discontinued operations and/or taxes, sales, sales growth, earnings growth, cash flow or cash position, gross margins, stock price, market share, return on sales, assets, equity or investment, improvement of financial ratings, achievement of balance sheet or income statement objectives, total shareholder return, market penetration goals, unit volume, geographic business expansion goals, drug discovery or other scientific goals, pre-clinical or clinical goals, organizational goals, regulatory approvals, cost targets and goals relating to acquisitions, divestitures and/or strategic partnerships.

(4) Adjustments. Notwithstanding any provision of the Plan, with respect to any Performance Award that is intended to qualify as Performance-Based Compensation, the Committee may adjust downwards, but not upwards, the cash or number of Shares payable pursuant to such Award, and the Committee may not waive the achievement of the applicable performance measures except in the case of the death or disability of the Participant or a change in control of the Company.

(5) Other. The Committee shall have the power to impose such other restrictions on Performance Awards as it may deem necessary or appropriate to ensure that such Awards satisfy all requirements for Performance-Based Compensation.

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12. Miscellaneous

(a) No Right To Employment or Other Status. No person shall have any claim or right to be granted an Award, and the grant of an Award shall not be construed as giving a Participant the right to continued employment or any other relationship with the Company. The Company expressly reserves the right at any time to dismiss or otherwise terminate its relationship with a Participant free from any liability or claim under the Plan, except as expressly provided in the applicable Award.

(b) No Rights As Stockholder. Subject to the provisions of the applicable Award, no Participant or Designated Beneficiary shall have any rights as a stockholder with respect to any shares of Common Stock to be distributed with respect to an Award until becoming the record holder of such shares.

(c) Effective Date and Term of Plan. The Plan shall become effective on the date the Plan is approved by the Company's stockholders (the *Effective Date*). No Awards shall be granted under the Plan after the expiration of 10 years from the Effective Date, but Awards previously granted may extend beyond that date.

(d) Amendment of Plan. The Board may amend, suspend or terminate the Plan or any portion thereof at any time provided that (i) to the extent required by Section 162(m), no Award granted to a Participant that is intended to comply with Section 162(m) after the date of such amendment shall become exercisable, realizable or vested, as applicable to such Award, unless and until the Company's stockholders approve such amendment if required by Section 162(m) (including the vote required under Section 162(m)); (ii) no amendment that would require stockholder approval under the rules of the NASDAQ Stock Market (*NASDAQ*) may be made effective unless and until the Company's stockholders approve such amendment; and (iii) if the NASDAQ amends its corporate governance rules so that such rules no longer require stockholder approval of material amendments to equity compensation plans, then, from and after the effective date of such amendment to the NASDAQ rules, no amendment to the Plan (A) materially increasing the number of shares authorized under the Plan (other than pursuant to Sections 4(c) or 10), (B) expanding the types of Awards that may be granted under the Plan, or (C) materially expanding the class of participants eligible to participate in the Plan shall be effective unless and until the Company's stockholders approve such amendment. In addition, if at any time the approval of the Company's stockholders is required as to any other modification or amendment under Section 422 of the Code or any successor provision with respect to Incentive Stock Options, the Board may not effect such modification or amendment without such approval. Unless otherwise specified in the amendment, any amendment to the Plan adopted in accordance with this Section 12(d) shall apply to, and be binding on the holders of, all Awards outstanding under the Plan at the time the amendment is adopted, provided the Board determines that such amendment does not materially and adversely affect the rights of Participants under the Plan. No Award shall be made that is conditioned upon stockholder approval of any amendment to the Plan.

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(e) **Authorization of Sub-Plans.** The Board may from time to time establish one or more sub-plans under the Plan for purposes of satisfying applicable securities or tax laws of various jurisdictions. The Board shall establish such sub-plans by adopting supplements to the Plan containing (i) such limitations on the Board's discretion under the Plan as the Board deems necessary or desirable or (ii) such additional terms and conditions not otherwise inconsistent with the Plan as the Board shall deem necessary or desirable. All supplements adopted by the Board shall be deemed to be part of the Plan, but each supplement shall apply only to Participants within the affected jurisdiction and the Company shall not be required to provide copies of any supplement to Participants in any jurisdiction which is not the subject of such supplement.

(f) **Non-U.S. Participants.** Awards may be granted to Participants who are non-U.S. citizens or residents employed outside the United States, or both, on such terms and conditions different from those applicable to Awards to Participants employed in the United States as may, in the judgment of the Board, be necessary or desirable in order to recognize differences in local law or tax policy. The Board also may impose conditions on the exercise or vesting of Awards in order to minimize the Board's obligation with respect to tax equalization for Participants on assignments outside their home country. The Board may approve such supplements to or amendments, restatements or alternative versions of the Plan as it may consider necessary or appropriate for such purposes, without thereby affecting the terms of this Plan as in effect for any other purpose, and the Secretary or other appropriate officer of the Company may certify any such document as having been approved and adopted in the same manner as this Plan.

(g) **Compliance with Section 409A of the Code.** Except as provided in individual Award agreements initially or by amendment, if and to the extent any portion of any payment, compensation or other benefit provided to a Participant in connection with his or her employment termination is determined to constitute nonqualified deferred compensation within the meaning of Section 409A of the Code and the Participant is a specified employee as defined in Section 409A(a)(2)(B)(i) of the Code, as determined by the Company in accordance with its procedures, by which determination the Participant (through accepting the Award) agrees that he or she is bound, such portion of the payment, compensation or other benefit shall not be paid before the day that is six months plus one day after the date of separation from service (as determined under Section 409A of the Code) (the ***New Payment Date***), except as Section 409A of the Code may then permit. The aggregate of any payments that otherwise would have been paid to the Participant during the period between the date of separation from service and the New Payment Date shall be paid to the Participant in a lump sum on such New Payment Date, and any remaining payments will be paid on their original schedule.

The Company makes no representations or warranty and shall have no liability to the Participant or any other person if any provisions of or payments, compensation or other benefits under the Plan are determined to constitute nonqualified deferred compensation subject to Section 409A of the Code but do not to satisfy the conditions of that section.

(h) **Limitations on Liability.** Notwithstanding any other provisions of the Plan, no individual acting as a director, officer, other employee, or agent of the Company will be liable to any Participant, former Participant, spouse, beneficiary, or any other person for any claim, loss, liability, or expense incurred in connection with the Plan, nor will such individual be personally

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liable with respect to the Plan because of any contract or other instrument he or she executes in his or her capacity as a director, officer, other employee, or agent of the Company. The Company will indemnify and hold harmless each director, officer, other employee, or agent of the Company to whom any duty or power relating to the administration or interpretation of the Plan has been or will be delegated, against any cost or expense (including attorneys' fees) or liability (including any sum paid in settlement of a claim with the Board's approval) arising out of any act or omission to act concerning this Plan unless arising out of such person's own fraud or bad faith.

(i) Governing Law. The provisions of the Plan and all Awards made hereunder shall be governed by and interpreted in accordance with the laws of the State of Delaware, excluding choice-of-law principles of the law of such state that would require the application of the laws of a jurisdiction other than such state.

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Electronic Voting Instructions

Available 24 hours a day, 7 days a week!

Instead of mailing your proxy, you may choose one of the voting methods outlined below to vote your proxy.

VALIDATION DETAILS ARE LOCATED BELOW IN THE TITLE BAR.

Proxies submitted by the Internet or telephone must be received by 11:59 p.m., Eastern Time, on June 5, 2013.

Vote by Internet

Go to www.investorvote.com/ALNY
Or scan the QR code with your smartphone
Follow the steps outlined on the secure website

Vote by telephone

Call toll free 1-800-652-VOTE (8683) within the USA, US territories

& Canada on a touch tone telephone

Using a **black ink** pen, mark your votes with an **X** as shown in this example. Please do not write outside the designated areas.

X

Follow the instructions provided by the recorded message

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

A Proposals The Board of Directors recommends you vote FOR each of the listed director nominees to serve for a term ending in 2016 and FOR Proposals 2, 3 and 4.

1. To elect the following nominees as Class III directors of Alnylam:

+

	For	Withhold		For	Withhold		For	Withhold
01 - Victor J. Dzau, M.D.	••	••	02 - Steven M. Paul, M.D.	••	••	03 - Kevin P. Starr	••	••

	For	Against	Abstain		For	Against	Abstain
2. To approve an amendment to Alnylam's 2009 Stock Incentive Plan.	3. To approve, in a non-binding advisory vote, the compensation of Alnylam's named executive officers.
4. To ratify the appointment of PricewaterhouseCoopers LLP, an independent registered public accounting firm, as Alnylam's independent auditors for the fiscal year ending December 31, 2013.				

In their discretion, the Proxies are authorized to vote upon any other business that may properly come before the annual meeting or at any adjournment(s) thereof.

B Non-Voting Items

Change of Address Please print new address below.

Comments Please print your comments below.

C Authorized Signatures This section must be completed for your vote to be counted. Date and Sign Below

Please sign exactly as your name(s) appear(s) hereon. All holders must sign. When signing as attorney, executor, administrator or other fiduciary, please give your full title as such. Joint owners should each sign personally. If a corporation, please sign in full corporate name, by authorized officer. If a partnership, please sign in partnership name by authorized person.

Date (mm/dd/yyyy) Please print date below.

Signature 1 Please keep signature within the box.

Signature 2 Please keep signature within the box.

/ /

01N3CB

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Important Notice Regarding the Availability of Proxy Materials for the Annual

Meeting of Stockholders to be Held on June 6, 2013:

The proxy statement, our annual report and 2013 CEO Letter to Shareholders are available for viewing, printing and downloading at www.alnylam.com/AnnualMeeting.

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

Proxy ALNYLAM PHARMACEUTICALS, INC.

ANNUAL MEETING OF STOCKHOLDERS

To be held on June 6, 2013 at 9:00 a.m., Eastern Time

This Proxy is solicited on behalf of the Board of Directors of Alnylam Pharmaceuticals, Inc. (Alnylam).

The undersigned, having received notice of the annual meeting of stockholders and the proxy statement therefor and revoking all prior proxies, hereby appoints each of John M. Maraganore, Ph.D., Barry E. Greene and Michael P. Mason (each with full power of substitution), as Proxies of the undersigned, to attend the annual meeting of stockholders of Alnylam to be held at 9:00 a.m., Eastern Time, on Thursday, June 6, 2013, at the offices of Alnylam, 300 Third Street, Cambridge, Massachusetts 02142, and any adjourned or postponed session thereof, and there to vote and act as indicated upon the matters on the reverse side in respect of all shares of common stock which the undersigned would be entitled to vote or act upon, with all powers the undersigned would possess if personally present.

You can revoke your proxy at any time before it is voted at the annual meeting by (i) submitting another properly completed proxy bearing a later date; (ii) giving written notice of revocation to the Secretary of Alnylam; (iii) if you submitted a proxy through the Internet or by telephone, by submitting a proxy again through the Internet or by telephone prior to the close of the Internet voting facility or the telephone voting facility;

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or (iv) voting in person at the annual meeting. If you hold any of the shares of common stock in a fiduciary, custodial or joint capacity or capacities, this proxy is signed by you in every such capacity as well as individually.

The shares of common stock of Alnylam represented by this proxy will be voted as directed by you for the proposals herein proposed by Alnylam. If no direction is given with respect to any proposal specified herein, this proxy will be voted FOR the proposal. In their discretion, the Proxies are authorized to vote upon any other business that may properly come before the annual meeting or any adjournment(s) thereof.

Please vote, date and sign on reverse side and return promptly in the enclosed pre-paid envelope.

Your vote is important. Please vote immediately.

CONTINUED AND TO BE SIGNED ON REVERSE SIDE

SEE REVERSE SIDE