

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

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the  
Securities Exchange Act of 1934  
(Amendment No. )

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.**

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(Name of Registrant as Specified in Its Charter)

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(Name of Person(s) Filing Proxy Statement, if Other Than the Registrant)

Payment of Filing Fee (Check all boxes that apply):

- No fee required.
- Fee paid previously with preliminary materials.
- Fee computed on table in exhibit required by Item 25(b) per Exchange Act Rules 14a-6(i)(1) and 0-11.

# Your Vote Counts!

ALNYLAM PHARMACEUTICALS, INC.

2023 Annual Meeting

Vote by May 17, 2023 11:59 PM ET. For shares held in a 401(k) Plan, vote by May 15, 2023 11:59 PM ET.

ALNYLAM PHARMACEUTICALS, INC.  
ATTN: SECRETARY  
675 WEST KENDALL STREET  
HENRI A. TERMEER SQUARE  
CAMBRIDGE, MA 02142



V05850-P87422-Z84413

## You invested in ALNYLAM PHARMACEUTICALS, INC. and it's time to vote!

You have the right to vote on proposals being presented at the Annual Meeting. **This is an important notice regarding the availability of proxy material for the stockholder meeting to be held on May 18, 2023.**

### Get informed before you vote

View the Proxy Statement, Annual Report on Form 10-K and Annual Report to Stockholders online OR you can receive a free paper or email copy of the material(s) by requesting prior to May 4, 2023. If you would like to request a copy of the material(s) for this and/or future stockholder meetings, you may (1) visit [www.ProxyVote.com](http://www.ProxyVote.com), (2) call 1-800-579-1639 or (3) send an email to [sendmaterial@proxyvote.com](mailto:sendmaterial@proxyvote.com). If sending an email, please include your control number (indicated below) in the subject line. Unless requested, you will not otherwise receive a paper or email copy.



For complete information and to vote, visit [www.ProxyVote.com](http://www.ProxyVote.com)

Control #

#### Smartphone users

Point your camera here and vote without entering a control number



#### Vote Virtually at the Meeting\*

May 18, 2023  
8:30 a.m., Eastern Time

Virtually at:  
[www.virtualshareholdermeeting.com/ALNY2023](http://www.virtualshareholdermeeting.com/ALNY2023)

\*Please check the meeting materials for any special requirements for meeting attendance.

## THIS IS NOT A VOTABLE BALLOT

This is an overview of the proposals being presented at the upcoming stockholder meeting. Please follow the instructions on the reverse side to vote these important matters.

Voting Items	Board Recommends
1. To elect the following nominees as Class I directors of Alnylam: <b>Nominees:</b>	
1a. Michael W. Bonney	✔ For
1b. Yvonne L. Greenstreet, MBChB, MBA	✔ For
1c. Phillip A. Sharp, Ph.D.	✔ For
1d. Elliott Sigal, M.D., Ph.D.	✔ For
2. To approve, in a non-binding advisory vote, the compensation of Alnylam’s named executive officers.	✔ For
3. To recommend, in a non-binding advisory vote, the frequency of advisory stockholder votes on executive compensation.	1 Year
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, 2023.	✔ For
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.	

Prefer to receive an email instead? While voting on [www.ProxyVote.com](http://www.ProxyVote.com), be sure to click “Sign up for E-delivery”.