FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
haura nor roonanaa	0.5							

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* Greene Barry E (Last) (First) (Middle) 300 THIRD STREET (Street) CAMBRIDGE MA 02142 (City) (State) (Zip)						2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY] 3. Date of Earliest Transaction (Month/Day/Year) 12/20/2017 4. If Amendment, Date of Original Filed (Month/Day/Year)								S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) President 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day)				Execution Date,			3. Transact	4. Securion Dispose		urities Acquired (A) or 4	or 5. Amount of Securities Beneficially Owned Following Reported		Form: D (D) or Indirect (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date	3A. Deem Execution if any	(e.g., pu				5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Date Expiration Date Expiration Date Expiration Date Date Expiration Date (Month/Day/Year)				8. Price of Derivative Security (Instr. 5)		9. Number of derivative		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
Performance Stock Option 2016 (right to buy)	\$42.22	12/20/2017			A ⁽¹⁾		6,250		12/20/2017	12	/20/2026	Common Stock	6,250) (\$0.0	6,250		D	

${\bf Explanation\ of\ Responses:}$

1. On December 20, 2016, the reporting person was granted a performance based stock option to purchase shares of ALNY common stock. One quarter of the shares subject to the option will vest upon the achievement of each of four specific clinical development, regulatory or commercial events, as approved by our compensation committee. Effective December 20, 2017, the compensation committee of the Company determined the first performance criterion had been met and the option vested as to one-quarter of the shares.

By: /s/ Michael P. Mason, Attorney-in-Fact For: Barry E. 12/21/2017 Greene

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.