FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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Filed		e Securities Exchange Act of 1934
	or Section 30(h) of the Invest	ment Company Act of 1940

1	ss of Reporting Perso	n*	2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC.	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
KEATING L	AURIE		[ALNY]		Director Officer (give title	10% Owner Other (specify			
(Last) (First) (Middle) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE (Street) CAMBRIDGE MA 02142		(Middle)			below)	below)			
			3. Date of Earliest Transaction (Month/Day/Year) 01/13/2021		EVP, Chief Legal	Officer			
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	idual or Joint/Group Filing	(Check Applicable			
		02142		X	Form filed by One Repo	rting Person			
					Form filed by More than Person	One Reporting			
(City)	(State)	(Zip)							
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		4. Securities Disposed Of 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	01/13/2021		M ⁽¹⁾		3,027	A	\$77.4	5,261	D	
Common Stock	01/13/2021		M ⁽¹⁾		6,000	A	\$85	11,261	D	
Common Stock	01/13/2021		S ⁽¹⁾		5,000	D	\$169	6,261	D	
Common Stock	01/13/2021		S ⁽¹⁾		3,000	D	\$170	3,261	D	
Common Stock	01/13/2021		S ⁽¹⁾		1,027	D	\$174	2,234	D	
Common Stock								434	Ι	by Managed Account ⁽²

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	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)														
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transac Code (li 8)		5. Nu of Deriv Secu Acqu (A) of Dispo of (D) (Instr and 5	rative rities iired r osed) - 3, 4	6. Date Exerc Expiration Da (Month/Day/Y	te	7. Title and Amount of Securities Underlying Derivative (Instr. 3 ar) Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
											or				

			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	or Number of Shares				
Stock Option (right to buy)	\$77.4	01/13/2021	M ⁽¹⁾			3,027	(3)	09/22/2024	Common Stock	3,027	\$0.0	2,164	D	
Stock Option (right to buy)	\$85	01/13/2021	M ⁽¹⁾			6,000	(3)	02/27/2029	Common Stock	6,000	\$0.0	19,000	D	

Explanation of Responses:

1. Title of Derivative

Security (Instr. 3)

1. All sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 10, 2020.

2. Reflects shares of ALNY common stock acquired by the reporting person under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.

3. The stock option vested as to 25% of the shares on the 1st anniversary of the date of the stock option grant and as to an additional 6.25% of the shares each successive three month period thereafter.

<u>By: /s/ Mary Beth DeLena,</u>	
Attorney-in-Fact For: Laurie	
Keating	

** 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.

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

01/15/2021