FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* KEATING LAURIE (Last) (First) (Middle) 675 WEST KENDALL STREET						Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY] 3. Date of Earliest Transaction (Month/Day/Year)									elationship of Reporting Person(s) to Issuer eck all applicable) Director 10% Owner X Officer (give title below) EVP, Chief Legal Officer				wner specify	
HENRI A. TERMEER SQUARE (Street)						02/10/2020 4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
CAMBRIDGE MA 02142				-									X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(S		(Zip)	Davi		- 6-		A.		Dia		f au Da		:-!!.	. 0					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					saction	ar) if	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			r	5. Amount of Securities Beneficially Owned Follo		Form:	Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	ce Reported Transaction (Instr. 3 and		on(s)			(Instr. 4)	
Common Stock 02/10/2						2020			M ⁽¹⁾		10,000) A	\$7	7.4	22,258		D			
Common Stock 02/10/2					0/2020	2020			S ⁽¹⁾		10,000) D	\$1	29	12,2	258	D			
Common Stock															43	34	I		Managed Account ⁽²⁾	
		-	Гable II -								osed of, converti				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,		Transaction Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		xercis on Dat Day/Ye		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amou or Numb of Share	oer						
Stock Option (right to	\$77.4	02/10/2020			M ⁽¹⁾	M ⁽¹⁾		10,000	(3)		09/22/2024	Common Stock	10,0	00	\$0.0	52,00	00	D		

Explanation of Responses:

- 1. All sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on November 26, 2019.
- 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 vests 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.

By: /s/ Mary Beth DeLena,

Attorney-in-Fact For: Laurie

02/12/2020

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.