FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

l	OMB APPROVAL											
	OMB Number:	3235-028										
	Estimated average but	rden										

0.5

hours per response:

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

					$\overline{}$														
Name and Address of Reporting Person* Vaishnaw Akshay						2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC.								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
						[ALNY]							y	Officer	(give title			specify	
(Last) (First) (Middle) 675 WEST KENDALL STREET						3. Date of Earliest Transaction (Month/Day/Year) 02/07/2020								President, R&D					
HENRI A. TERMEER SQUARE						If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street) CAMBRIDGE MA 02142														X Form filed by One Reporting Person Form filed by More than One Reporting					
(City) (State) (Zip)						Person													
		Tab	le I - No	n-Deriv	/ative	Se	curiti	ies Acc	uired	, Dis	posed of	, or Ben	eficially	Owned					
1. Title of Security (Instr. 3) 2. Trans Date (Month/					Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securitie Disposed C			Beneficial Owned Fo	ly	6. Own Form: (D) or I (I) (Inst	Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Reported Transaction (Instr. 3 ar	on(s) nd 4)			(Instr. 4)	
Common S	itock	/2020	2020					18,750	A	\$42.22	30,923		D						
Common Stock 02/07/2							2020		M ⁽¹⁾		4,000	A	\$42.22	34,9)23	D			
Common S	2020				S ⁽¹⁾		23,708	D	\$125	11,2	15	D							
Common Stock														51	5			by Managed Account ⁽²⁾	
		Т	able II -					-	-	-	osed of, convertib		-	Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	e (Month/Day/Year)	3A. Deen Executio if any (Month/D	ned n Date,	4. Transa Code (I 8)	ction	5. Number ion of		6. Date Exerci Expiration Da (Month/Day/Y		isable and	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 Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares						
Performance Stock Option 2016 (right to buy)	\$42.22	02/07/2020			M ⁽¹⁾			4,000	08/06/2	019	12/20/2026	Common Stock	4,000	\$0.0	21,00	00	D		
Stock Option (right to buy)	\$42.22	02/07/2020			M ⁽¹⁾			18,750	(3)		12/20/2026	Common Stock	18,750	\$0.0	6,250	0	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 December 04, 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: Akshay

02/11/2020

K. Vaishnaw

** 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.