FORM 4

Check this box if no longer subject to

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Machineton	D C	205.40	
Vashington.	D.C.	20549	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Section 16. Form 4 or Form 5 obligations may continue. See Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 Instruction 1(b).

1. Name and Address of Reporting Person* <u>Vaishnaw Akshay</u>					2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]										k all applic	able)	g Pers	son(s) to Issu 10% Ov Other (s	/ner
		L STREET	/liddle)		3. Date of Earliest Transaction (Month/Day/Year) 11/22/2019										President,		below)		
(Street)		R SQUARE 0	2142		4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) Y Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(Sta	<u> </u>	ľip)			Person													
		Tabl	e I - Non	-Deriv	ative	Se	curities	s Acc	quired, I	Dis	posed o	f, or Be	nefi	cially	Owned				
Date			2. Trans Date (Month/I		ar) i	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8) 4. Securitie Disposed Code (Society Code) (Societ				4 and Securiti Benefic Owned		es Fo ially (D Following (I)		n: Direct or Indirect ostr. 4)	7. Nature of Indirect Beneficial Ownership		
									v	Amount	(A) o (D)	r P	rice	Reported Transact (Instr. 3	ction(s)			(Instr. 4)	
		Ta	able II - D						ired, Di options						Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	se (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		on of i		6. Date Exercisable a Expiration Date (Month/Day/Year)			le and 7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4)			3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisabl		Expiration Date	Title	Amo or Nun of Sha	.					
Performance Stock Option 2017 (right to	\$119.13	11/22/2019			A ⁽¹⁾		8,333		11/22/2019	9 0	03/01/2028	Common Stock	8,3	333	\$0.0	8,333		D	

Explanation of Responses:

1. On March 1, 2018, the reporting person was granted a performance based stock option to purchase shares of ALNY common stock. One third of the shares subject to the option vest upon the achievement of each of three specific clinical development, regulatory or commercial events, as approved by our compensation committee. The compensation committee of the Company determined that the first performance criterion was met on November 22, 2019 and the option vested as to the first one third of the shares as of such date.

By: /s/ Mary Beth DeLena,

Attorney-in-Fact For: Akshay

11/26/2019

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.