FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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

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Name and Address of Reporting Person* Vaishnaw Akshay						2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC.									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle)						[ALNY] 3. Date of Earliest Transaction (Month/Day/Year) 03/14/2018									X Officer (give title Other (specify below) below) President, R&D					
Street)						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)	- Non-Deriv	(ativ	,, S		urif	ios A	cauir	ad D	lienosed (of or F	Renefic	·iallv	, Owne	d			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea				ear)	2A. Deeme Execution			ate,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			5. Amou Securiti Benefici Owned		unt of 6. O es Formially (D)		n: Direct	7. Nature of Indirect Beneficial Ownership	
										Code	v	Amount	(A) or (D)	Price		Followin Reporte Transac (Instr. 3	tion(s)	(Instr		(Instr. 4)
Common Stock				03/14/201	8				M ⁽¹⁾		44,641	A	\$18.	\$18.66		5,856		D		
Common Stock				03/14/2018						M ⁽¹⁾		38,913	A	\$16.4	\$16.43 94,		,769		D	
Common Stock				03/14/201	8					M ⁽¹⁾		5,000	A	\$7.	\$7.1 99		,769		D	
Common Stock				03/14/201	8					S ⁽¹⁾	$oxed{oxed}$	6,453	D	\$140.4	40.45 ⁽²⁾ 93,		316 D		D	
Common Stock				03/14/201	8				S ⁽¹⁾	$oxed{oxed}$	15,000	D	\$141.6	41.69(3) 78,		,316	D			
Common Stock 03/1-				03/14/201	8				S ⁽¹⁾		21,336	D	\$142.5	12.57 ⁽⁴⁾ 56,		980 D		D		
Common Stock 03/14/				03/14/201	8				S ⁽¹⁾		19,213	D	\$143.4			,767		D		
				03/14/2018					S ⁽¹⁾		20,172	D				,595		D		
Common Stock 03/14			03/14/201	8					S ⁽¹⁾	_	6,380	D	\$145.2	27 ⁽⁷⁾	11,	,215		D		
Common Stock														338				by Managed Account ⁽⁸⁾		
		Т	able	II - Deriva (e.g., p								posed of , converti				Owned			<u> </u>	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	3A. Deemed Execution Date, If any Month/Day/Year)			5. Numbo of Derivativ Securitie Acquirer (A) or Disposer of (D) (Instr. 3, and 5)		ivative urities uired or posed D)	Expiration (Month/Days			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		o D S (I	Price f erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownershi Form: Direct (D) or Indirec (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						de V		(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amou or Number of Shares	nber					
Stock Option (right to buy)	\$7.1	03/14/2018		N		M ⁽¹⁾			5,000	00 (9)		11/30/2021	Common Stock			\$0.0	0		D	
Stock Option (right to buy)	\$16.43	03/14/2018		N		M ⁽¹⁾			38,91	3	9)	12/09/2019	Common Stock			\$0.0	50.0 0		D	
Stock Option (right to buy)	\$18.66	03/14/2018			M ⁽	1)			44,64	1 (9)	12/20/2022	Commor Stock	44,64	41	\$0.0	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 January 10, 2018.
- 2. Sale prices ranged from \$140.00 to \$140.95
- 3. Sale prices ranged from \$141.01 to \$142.00
- 4. Sale prices ranged from \$142.01 to \$143.00
- 5. Sale prices ranged from \$143.01 to \$143.98
- 6. Sale prices ranged from \$144.01 to \$145.00
- 7. Sale prices ranged from \$145.01 to \$145.80
- 8. The reporting person owns 338 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- 9. 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/ Michael P. Mason,

Attorney-in-Fact For: Akshay 03/16/2018

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.