FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

OMB APPROVAL									
OMB Number:	3235-0287								
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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). Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Greenstreet Yvonne							2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director				
(Last) (First) (Middle) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE						3. Date of Earliest Transaction (Month/Day/Year) 01/12/2021								X Officer (give title Other (specify below) President & COO					
(Street) CAMBR (City)	IDGE M	IA .	02142 (Zip)		4. li	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - No	n-Deriv	vative	e Sec	curiti	ies Ac	quired	, Dis	sposed o	of, or Be	neficial	ly Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				action	2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 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 Transacti (Instr. 3 a	ion(s)			(Instr. 4)	
Common	Stock			01/12	/2021				M ⁽¹⁾		3,125	A	 				D		
Common	Stock			01/12	/2021				S ⁽¹⁾		3,125	D	\$161	4,8	320	D			
Common	Stock													40				by Managed Account ⁽²⁾	
		Т	able 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. Deem Execution if any (Month/D	n Date,	4. Transa Code (8)		on of		6. Date Exercis Expiration Date (Month/Day/Ye		е	7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Beneficia Owned Followin Reported Transact (Instr. 4)	e es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to	\$42.22	01/12/2021			M ⁽¹⁾			3,125	(3)		12/20/2026	Common Stock	3,125	\$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 May 08, 2020.
- $2. \ Reflects \ shares \ of \ ALNY \ don't (k) \ plan \ as \ a \ result \ of \ the \ ALNY \ 401(k) \ matching \ contribution \ program.$
- 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.

By: /s/ Mary Beth DeLena,

Attorney-in-Fact For: Yvonne 01/13/2021

Greenstreet

** 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.