FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

	OMB APPROVAL										
	OMB Number:	3235-0287									
	Estimated average bu	ırden									
ı	hours per recognoses:	0.5									

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					AL	2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify					
(Last) (First) (Middle) 675 WEST KENDALL STREET HENDLA TERMERA SOLVARE						3. Date of Earliest Transaction (Month/Day/Year) 08/06/2021								X below) below) President & COO					
HENRI A. TERMEER SQUARE					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street)	RIDGE MA 02142													X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(Sta	te) (Z	Zip)											1 013011					
		Tabl	le I - No	n-Deriv	/ative	Sec	uriti	es Acc	uired,	Dis	posed of	f, or Ben	eficially	/ Owned					
Date			Date	Transaction te onth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			5. Amount Securities Beneficial Owned Fo	ly	Form: (D) or	Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price	Reported Transactio (Instr. 3 ar				Instr. 4)	
Common Stock				08/06/2021					M ⁽¹⁾		28,064	A	\$77.1	39,087			D		
Common Stock (08/06	08/06/2021				M ⁽¹⁾		25,000	000 A		64,087			D		
Common Stock 08/00				5/2021				S ⁽¹⁾		53,064	D	\$199	11,0	11,023		D			
Common Stock													407			I 1	Managed Account ⁽²⁾		
		Т	able II -								osed of, convertib			Owned					
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date Execution Date or Exercise (Month/Day/Year) if any		n Date,	Code (Ins				6. Date Exercisable Expiration Date (Month/Day/Year)		ite	of Securities		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares						
Performance Stock Option 2016 (right to buy)	\$77.1	08/06/2021			M ⁽¹⁾			25,000	08/13/2	018	09/18/2026	Common Stock	25,000	\$0.0	0		D		
Stock Option (right to buy)	\$77.1	08/06/2021			M ⁽¹⁾			28,064	(3)		09/18/2026	Common Stock	28,064	\$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 February 12, 2021.
- 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 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 08/09/2021

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.