FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSH
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l	OMB APPROVAL									
	OMB Number:	3235-0287								
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l	hours per response:	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

1. Name and Address of Reporting Person* Greenstreet Yvonne					AI	2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]								5. Relationship of Reporting Person(s) to Iss (Check all applicable) Director 10% Ov V Officer (give title Other (s					Owner	
	Last) (First) (Middle) 175 WEST KENDALL STREET HENRI A. TERMEER SQUARE				3. Date of Earliest Transaction (Month/Day/Year) 12/12/2019										X Officer (give title below) Unter (specify below) Chief Operating Officer					
(Street) CAMBR (City)		MA (Sta	. 0)2142 Zip)		_ 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Inc Line)	Forn	I or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson				
			Tabl	e I - No	on-Deriv	/ative	Sec	curitie	es Ac	quired	d, Dis	sposed o	f, or E	Benefi	ciall	y Own	ed			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day			ction	ion 2A. Deemed Execution Date,		3.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a			or .	5. Amo Securit Benefic	ount of ties cially Following	Forr (D)	wnership n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership				
										Code	v	Amount	(A) o	r Pric	e		ed ction(s) 3 and 4)			(Instr. 4)
Common Stock 12/12/20					2019				A ⁽¹⁾		7,500	A	\$	0.0	9	,416		D		
Common	Stock				12/12/	2019				F		3,208	D	\$1	20.61	6	5,208		D	
Common	Stock																407		I	by Managed Account ⁽²⁾
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security 3. Transaction Date Execution Date, if any (Month/Day/Year)		4. Transa Code (8)	(Instr. Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable at Expiration Date (Month/Day/Year) Date Exercisable Date		te ear) Expiration	Amount of Securities Underlying Derivative Security (Instr. and 4)		De Se (Ir	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)					

Explanation of Responses:

1. On June 29, 2017, the reporting person was granted a restricted stock unit (RSU) to purchase shares of ALNY common stock. One half of the shares subject to release vested upon the achievement of each of two specific commercial events as approved by the compensation committee of the company. The compensation committee determined that the second performance criterion was met and therefore the second and final half of the shares vested as of December 12, 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.

By: /s/ Mary Beth DeLena,

Attorney-in-Fact For: Yvonne 12/13/2019

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.