FORM 4

Section 16. Form 4 or Form 5 obligations may continue. See

Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Vashington	D.C.	20549	

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden

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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					2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]										all applic Directo Officer	cable) r (give title	g Pers	10% Ov Other (s	on(s) to Issuer 10% Owner Other (specify	
	st) (First) (Middle) 5 WEST KENDALL STREET CNRI A. TERMEER SOUARE					3. Date of Earliest Transaction (Month/Day/Year) 11/22/2019								Α	Chief Operating			below) GOfficer		
(Street) CAMBRII (City)		Λ 0	2142 Zip)		4. If <i>i</i>	Amer	ndment, C	nt, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Tabl	e I - Non-	-Deriv	ative	Sec	curities	s Acq	quired, Ι	Dis	posed o	f, or Be	nefici	ally	Owned					
Date			Date	h/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed O Code (Instr. 5)		ties Acquired (A) I Of (D) (Instr. 3, 4		and Secu Ben Own		ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	(A) or (D)	Pric	е	Reported Transact (Instr. 3	ction(s)			(Instr. 4)		
		Ta	able II - D (e									or Bene ole secu			wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		n of E		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		D S (li	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
					Code	v	(A)		Date Exercisabl		Expiration Date	Title	Amou or Numb of Share	er						
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	8,33	3	\$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: Yvonne

11/26/2019

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.