Greenstreet Yvonne Form 4 August 14, 2018

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

may continue.

See Instruction

1. Name and Address of Reporting Person ** Greenstreet Yvonne			Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
			ALNYLAM PHARMACEUTICALS, INC. [ALNY]	(Check all applicable)			
(Last) 300 THIRD	Last) (First) (THIRD STREET	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/13/2018	Director 10% OwnerX Officer (give title Other (specify below) EVP, Chief Operating Officer			
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person			
CAMBRIDGE, MA 02142		42		Form filed by More than One Reporting Person			
(City)	(State)	(Zip)	Table I Non Doningtine Committee As	animal Diseased of an Danafisially Osses d			

(City)	(State)	(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2. Transaction Date 2A. Deemed			4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect
			Code	V	Amount	or (D)	Price	(Instr. 3 and 4)		
Common Stock	08/13/2018		A(1)		7,500	A	\$ 0	7,500	D	
Common Stock	08/13/2018		F		3,084	D	\$ 90.95	4,416	D	
Common Stock	04/16/2018		J(2)	V	37	A	\$ 0 (2)	270	I	by Managed Account (2)
Common Stock	07/10/2018		J(2)	V	38	A	\$ 0 (2)	308	I	by Managed Account (2)

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

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 (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount Underlying Securiti (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Sha
Performance Stock Option 2016 (right to buy)	\$ 77.1	08/13/2018		A(3)	25,000	08/13/2018	09/19/2026	Common Stock	25,0

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Greenstreet Yvonne 300 THIRD STREET CAMBRIDGE, MA 02142

EVP, Chief Operating Officer

Signatures

By: /s/ Michael P. Mason, Attorney-in-Fact For: Yvonne
Greenstreet

08/14/2018

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- 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 will vest upon the achievement of each of two specific commercial events as approved by our compensation committee. Effective August 13, 2018, the compensation committee of the Company determined the first performance criterion has been met and one half of the shares have vested.
- (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)

Reporting Owners 2

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On September 19, 2016, the reporting person was granted a performance based stock option to purchase shares of ALNY common stock. The shares subject to the option will vest upon the commercial launch of Alnylams first internally developed product, as approved by our compensation committee. Effective August 13, 2018, the compensation committee of the Company determined the performance criterion has been met and the option shares have vested.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.