FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
vvasiliigtoii,	D.C.	20049

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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

Name and Address of Reporting Person* Greenstreet Yvonne					2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC.								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Greens	treet yvo	<u>nne</u>				ALN					3011011	, 11,		X Directo	or		10% O	wner
,					- - '	LLIT	• ,						_		(give title		Other (specify
(Last)	`	•	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 03/01/2024								below) below Chief Executive Office				
675 WES	ST KENDA	ALL STREET			03	/01/2	2024							CI	nei Exe	cutive	Officer	
HENRI A. TERMEER SQUARE					4.1	If Ame	endment, I	Date c	of Original	l File	d (Month/Da		6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)														X Form fi	led by Or	ne Repo	orting Perso	n
CAMBR	LIDGE M	IA	02142									Form filed by More than One Reporting Person						
(City) (State) (Zip)					R	Rule 10b5-1(c) Transaction Indication												
					Ιп	Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.												
						Saus	siy iile allili	nauve	uelelise ci	oriulii	ons of Rule 1	UDS-1(C). SE	ee mstructic	iii 10.				
		Tab	ole I - No	n-Deri	vativ	e Se	curities	s Ac	quired,	Dis	sposed o	f, or Be	neficial	ly Owned				
1. Title of	Security (Ins	tr. 3)		2. Trans	action	7 2	A. Deeme	d	3.		4. Securiti	es Acquire	d (A) or	5. Amoun	t of	6. Owi	nership	. Nature of
Date (Month/Da					Day/Yea	ar) i	f any	xecution Date,		Transaction Di		Disposed Of (D) (Instr. 3, 4		Securities Beneficial Owned Fo	ecurities Form eneficially (D) o wned Following (I) (Ir		r Indirect I	Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) or (D)	Price					
Common Stock 03/01/2				1/2024	2024		A		23,754	1) A	\$0.0	71,882(2)			D			
									Т								1	ργ
Common Stock														407				Managed
																Account ⁽³⁾		
			Table II	Dorive	ativo.	500	urition	Λοαι	uirod [lion	osed of,	or Pon	oficially	Owned				
			iable II -								convertil			Owned				
1. Title of	2.	3. Transaction	3A. Deem	` • •	4.		5. Numl		•		sable and		d Amount	8. Price of	9. Numb	er of	10.	11. Nature
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Execution	Date,	Transa Code (8)		on of		Expiratio (Month/D	n Da	te	of Securit Underlyin Derivative (Instr. 3 a	ies g Security	Derivative Security (Instr. 5)	derivative Securitie Benefici Owned Followin Reported Transact (Instr. 4)	ove Owne Form: ally Direct or Ind g (I) (Ins	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	of Indirect Beneficial Ownership (Instr. 4)
				Γ				$ \ \ $		T			Amount					
									D-4-		F i ii .		Number					
					Code	v	(A)	(D)	Date Exercisal	ble	Expiration Date	Title	of Shares					
Stock																		
Option (right to buy)	\$152.61	03/01/2024			Α		46,394		(4)		03/01/2034	Stock	46,394	\$0.0	46,39	5,394 D		

Explanation of Responses:

- 1. These shares are represented by restricted stock units (RSUs) granted under the Amended and Restated 2018 Stock Incentive Plan. Each RSU represents a contingent right to receive one share of common stock. The RSUs will vest over a three-year period, with one third vesting on each of the first, second and third anniversaries of the grant date, subject to the Reporting Persons continuous service with the Issuer as of each such vesting date.
- 2. The Reporting Person has reported prior awards of RSUs in Table II of Form 4. The total reported in Column 5 includes the 23,754 newly awarded RSUs and 48,128 shares of common stock. The Reporting Person also holds 11,842 unvested RSUs that were previously reported in Table II.
- 3. Reflects shares of ALNY common stock acquired by the Reporting Person under the issuer 401(k) plan as a result of the issuer 401(k) matching contribution program.
- 4. The stock option vests as to 25% of the shares on the first anniversary of the grant date and the remaining shares vesting in equal installments at the end of each successive three-month period thereafter until the fourth anniversary of the grant date, subject to the Reporting Persons continuous service with the Issuer as of each such vesting date.

By: Stephen Hall, Attorney-in-Fact For: Yvonne Greenstreet

03/05/2024

** Signature of Reporting Person

son 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.