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									
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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					<u>Al</u>	2. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. ALNY									applica rector	able)	ng Pers	10% O	wner	
(Last) (First) (Middle) 675 WEST KENDALL STREET						oate of 27/20		est Tran	saction	(Mon	th/Day/Year)			elow)	ief Exec	Other (spelow)				
HENRI A. TERMEER SQUARE						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)	IDGE M	A	02142											Fo		•		orting Person One Repo	- 1	
(City) (State) (Zip)					Rule 10b5-1(c) Transaction Indication															
	Check this box to indicate that a transaction was made pursuant to satisfy the affirmative defense conditions of Rule 10b5-1(c). See In																			
		Tab	le I - N	Ion-Deriv	vative	Sec	uriti	es Ac	quire	ed, D	isposed o	of, or B	eneficia	lly Ow	ned					
Da		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 ar			Beneficially Owned Following		i Ily	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
							Code V		Amount	(A) or (D)	Price	Tran	Reported Transaction(s) (Instr. 3 and 4)				Instr. 4)			
Common Stock			02/27/2	024			M		5,921	A	\$0.0		51,0	,060		D				
Common Stock			02/28/2024				S ⁽¹⁾		1,259	D	\$154.54	4(2) 49		801		D				
Common Stock			02/28/2024				S ⁽¹⁾		993	D	\$155.45	45 ⁽³⁾ 48		,808		D				
Common Stock				02/28/2	02/28/2024				S ⁽¹⁾		588	D	\$156.38	48,22		220	D			
Common Stock 02/				02/28/2	:024			S(84	D	\$157.30	157.3 ⁽⁵⁾		18,136		D		
Common	mmon Stock 02/28/2				024	!4			S ⁽¹⁾		8	D	\$158.0	9	48,128			D		
Common Stock													407			I 1	Managed Account ⁽⁶⁾			
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)	if any	emed ion Date, /Day/Year)		ansaction of ode (Instr. Derivative				e Exerc ation D h/Day/		7. Title a Amount Securiti Underly Derivati (Instr. 3	of es ing ve Security	Derivat Securit	Derivative Security Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactio (Instr. 4)	e C s F ally C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	ode V (A) (D)		Date Exercisable		Expiration Date	Title	Amount or Number of Shares								
Restricted Stock Units	(7)	02/27/2024			M			5,921	(8	3)	(8)	Common Stock 5,9		\$0.0		11,84	2	D		

Explanation of Responses:

- 1. Represents shares automatically sold by the Company on behalf of the reporting person pursuant to a mandatory sell-to-cover provision in the award agreement required to cover minimum statutory tax withholding obligations that became due upon the vesting and settlement of restricted stock units reported in this form.
- 2. The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$153.94 to \$154.94. The reporting person will provide to the issuer, any security holder of the issuer or the SEC staff, upon request, information regarding the number of shares sold at each price within the range
- 3. The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$154.95 to \$155.95. The reporting person will provide to the issuer, any security holder of the issuer or the SEC staff, upon request, information regarding the number of shares sold at each price within the range
- 4. The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$155.96 to \$156.91. The reporting person will provide to the issuer, any security holder of the issuer or the SEC staff, upon request, information regarding the number of shares sold at each price within the range
- 5. The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$157.01 to \$157.99. The reporting person will provide to the issuer, any security holder of the issuer or the SEC staff, upon request, information regarding the number of shares sold at each price within the range
- 6. 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.
- 7. Each restricted stock unit represents a contingent right to receive one share of ALNY common stock.
- 8. On February 27, 2023, the reporting person was granted 17,763 restricted stock units that vest ratably on each of the first, second and third anniversaries of the Grant Date. On February 27, 2024, the first tranche of restricted stock units from the February 27, 2023 grant vested and was released, as reported on this Form 4.

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

02/29/2024

** 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.