SEC For	m 4 FORM	4		STAT	ES	SE			-	-	NGE C	оммі	SSION				1
Section 16. Form 4 or Form 5 obligations may continue. See					Washington, D.C. 20549 <b>IT OF CHANGES IN BENEFICIAL OWNE</b> pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940								SHIP OMB Number			erage burden	3235-0287
1. Name and Address of Reporting Person* Greenstreet Yvonne (Last) (First) (Middle) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE					ALNYLAM PHARMACEUTICALS, INC.   (Check all appli     [ ALNY ]   X     Direct   X     Officer   below;									or 10% Owner (give title Other (specify			
(Street) CAMBR (City)	02142 (Zip)										. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
Table I - Non-Deriva   1. Title of Security (Instr. 3)   2. Transa Date (Month/D)					tion	2/ Ex ur) if	A. Deemed Execution Date, f any Month/Day/Year		ar) 3. Transaction Code (Instr. 8) 4. Securi Dispose 5)		ities Acquired (A) or d Of (D) (Instr. 3, 4 and		5. Amount of		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
					Ve Securities Acquired, Disposed of, or Beneficia ts, calls, warrants, options, convertible securities							eficially	ially Owned				
1. Title of Derivative Security (Instr. 3)	Derivative Conversion Date Security or Exercise (Month/Day/		3A. Deemed Execution Dat if any (Month/Day/Ye	Co	ansact de (In:	istr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/)	ate	le and of Securities Underlying Derivative Sec (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)			10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Co	de V	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Stock Option (right to buy)	\$169.58	12/31/2021		A	4		55,949		(1)	12/30/2031	Common Stock	55,949	\$0.0	55,949	9	D	

Explanation of Responses:

1. The stock option vests as to 25% of the shares on the 1st anniversary of the date of the stock option grant and as to an additional 6.25% of the shares each successive three month period thereafter.

## By: /s/ Mary Beth DeLena, Attorney-in-Fact For: Yvonne 01/04/2022

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.