FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	DC	20549
vvasi ii iytori,	D.C.	20349

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours nor rospones:	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

1. Name and Address of Reporting Person*  MARAGANORE JOHN  (Last) (First) (Middle)  675 WEST KENDALL STREET  HENRI A. TERMEER SQUARE				<u>A</u> [ ] 3.	Susuer Name and Ticker or Trading Symbol     ALNYLAM PHARMACEUTICALS, INC.     [ ALNY ]      3. Date of Earliest Transaction (Month/Day/Year)     08/13/2021									. Relationship of Reporting Person(s) to Issuer Check all applicable)  X Director 10% Owner  X Officer (give title Other (specify below)  Chief Executive Officer					
(Street) CAMBRI (City)	IDGE M	A tate)	02142 (Zip)	lon Dovi	-	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Application)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person											n		
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 au		(A) or		5. Amoun Securities Beneficia Owned Fo	5. Amount of Securities Beneficially Dwned Following		Direct I Indirect E tr. 4)	7. Nature of Indirect Beneficial Ownership			
								Code V		Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a		on(s)		1	Instr. 4)	
Common	Stock			08/13/2	2021	İ			M <sup>(1)</sup>		33,979	Α	\$7.	.1	248,	744		D	
Common Stock			08/13/2021		L		<b>S</b> <sup>(1)</sup>		2,441	D	\$198.	.02(2) 246		303		D			
Common Stock			08/13/2021		-		S <sup>(1)</sup>		4,160	D	\$198.	.93 <sup>(3)</sup> 242,		143		D			
Common Stock			08/13/2021				S <sup>(1)</sup>		23,336	D	\$199.	9.92 <sup>(4)</sup> 2		3,807		D			
Common Stock			08/13/2021				S <sup>(1)</sup>		3,828	D	\$200.	00.84 <sup>(5)</sup> 21		14,979		D			
Common Stock 08/3				08/13/2	2021	021					214	D	\$201	1.55 21		14,765		D	
Common Stock															3,1	33		I   I	Managed Account <sup>(6)</sup>
		٦	Table I								posed of, convertil				wned				
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any		4. Transa Code ( 8)	ction	5. Numb		6. Date Expira		cisable and	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		ount 8	8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Beneficie Owned Followin Reported Transact (Instr. 4)	ve es ially ng ed tion(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exerci	isable	Expiration Date	Title	Amou or Numl of Share	ber					
Stock Option (right to buy)	\$7.1	08/13/2021			M <sup>(1)</sup>			33,979	(7	7)	11/30/2021	Common Stock	33,9	79	\$0.0	33,97	78	D	

## **Explanation of Responses:**

- 1. All sales reported on this Form 4 were made pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 9, 2020. The 33,979 options exercised and sold by the reporting person were due to expire on November 30, 2021.
- 2. Sale prices ranged from \$197.44 to \$198.44.
- 3. Sale prices ranged from \$198.45 to \$199.44.
- 4. Sale prices ranged from \$199.46 to \$200.45.
- 5. Sale prices ranged from \$200.48 to \$201.43.
- 6. 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.
- 7. The stock option vested 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: John M. 08/16/2021 **Maraganore** 

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.