FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
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1	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

1. Name and Address of Reporting Person* MARAGANORE JOHN (Last) (First) (Middle) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE					3. I 05	Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY] One of Earliest Transaction (Month/Day/Year) O5/13/2021									Relationship of Reporting Person(s) to Issuer heck all applicable) X Director 10% Owner X Officer (give title Other (specify below) Chief Executive Officer				wner (specify
(Street) CAMBRIDGE MA 02142				- 4. I -	. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Cline) X Form filed by One Reporti Form filed by More than C										orting Perso	on			
(City)	(5	itate)	(Zip)	lan Dani		- 6				4 5		f D		:-11	0				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				tion	n 2A. Deemed Execution Date,		3. Transa Code (8)	ction	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an				5. Amount of Securities Beneficially Owned Following		Form:	Direct Indirect	7. Nature of ndirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	or Price Reported Transaction (Instr. 3 and		on(s)			(Instr. 4)	
Common Stock			05/13/2021				M ⁽¹⁾		33,979	A	\$7.	.1	248,	48,744		D			
Common Stock			05/13/2	05/13/2021				S ⁽¹⁾		3,015	D	\$128	.3(2)	245,729			D		
Common Stock				05/13/2021				S ⁽¹⁾		4,512	D	\$129.	32 ⁽³⁾	241,	.,217		D		
Common	Stock			05/13/2021				S ⁽¹⁾		9,121	D	\$130.).34 ⁽⁴⁾ 23		2,096		D		
Common Stock				05/13/2	05/13/2021				S ⁽¹⁾		11,203	D	\$ 13 1.	1.18 ⁽⁵⁾ 22),893		D	
Common Stock 05/13/2				021				S ⁽¹⁾		3,481	D	\$132.	.32 ⁽⁶⁾ 217		,412		D		
Common Stock 05/13/202				021	21			S ⁽¹⁾		1,624	D	\$133.	.56 ⁽⁷⁾ 215,7		788	'88			
Common Stock 05/13/202				021				S ⁽¹⁾		1,023	D	\$134.	37(8)	214,	765		D		
Common Stock													3,133		I		by Managed Account ⁽⁹⁾		
			Table I								posed of, convertil				Owned				
1. Title of Derivative Security (Instr. 3)	2. 3. Transaction 3A. Deemed 4.		5. Number of				Exer	cisable and ate	7. Title and Am of Securities Underlying Derivative Sect (Instr. 3 and 4)		8. Price of Derivative Security		9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e Over State of State	10. Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)			
			Cod		v	(A)	(D)	Date Exercisable		Expiration Date	An or Nu of Title Sh								
Stock Option (right to buy)	\$7.1	05/13/2021			M ⁽¹⁾			33,979	(10)		11/30/2021	Common Stock	33,9	79	\$0.0	67,957		D	
Explanation	n of Respon	ses:																	

- 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 \$127.73 to \$128.73.
- 3. Sale prices ranged from \$128.80 to \$129.77.
- 4. Sale prices ranged from \$129.81 to \$130.81.
- 5. Sale prices ranged from \$130.82 to \$131.81.
- 6. Sale prices ranged from \$131.84 to \$132.78.
- 7. Sale prices ranged from \$132.97 to \$133.77.
- 8. Sale prices ranged from \$134.11 to \$134.40.
- 9. 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.
- 10. 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. 05/17/2021

Maraganore ** 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.	