

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* <u>Fitzgerald Kevin Joseph</u> _____ (Last) (First) (Middle) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE _____ (Street) CAMBRIDGE MA 02142 _____ (City) (State) (Zip)			2. Issuer Name and Ticker or Trading Symbol <u>ALNYLAM PHARMACEUTICALS, INC.</u> [ALNY]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director _____ 10% Owner _____ <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) _____ CSO & EVP, Head of Research		
			3. Date of Earliest Transaction (Month/Day/Year) 08/12/2024			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person		
			4. If Amendment, Date of Original Filed (Month/Day/Year)			Rule 10b5-1(c) Transaction Indication <input checked="" type="checkbox"/> 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.		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	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 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	08/12/2024		M ⁽¹⁾		6,667	A	\$97.72	20,848	D	
Common Stock	08/12/2024		M ⁽¹⁾		14,058	A	\$85	34,906	D	
Common Stock	08/12/2024		S ⁽¹⁾		1,421	D	\$268.66 ⁽²⁾	33,485	D	
Common Stock	08/12/2024		S ⁽¹⁾		9,662	D	\$270.17 ⁽³⁾	23,823	D	
Common Stock	08/12/2024		S ⁽¹⁾		5,736	D	\$271.32 ⁽⁴⁾	18,087	D	
Common Stock	08/12/2024		S ⁽¹⁾		3,913	D	\$272.43 ⁽⁵⁾	14,174	D	
Common Stock	08/12/2024		S ⁽¹⁾		1,158	D	\$273.73 ⁽⁶⁾	13,016	D	
Common Stock	08/12/2024		S ⁽¹⁾		135	D	\$274.65	12,881	D	
Common Stock								537	I	by Managed Account ⁽⁷⁾

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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Stock Option (right to buy)	\$85	08/12/2024		M ⁽¹⁾			14,058	(8)	02/28/2029	Common Stock	14,058	\$0.0	2,192	D	
Stock Option (right to buy)	\$97.72	08/12/2024		M ⁽¹⁾			6,667	(9)	12/07/2025	Common Stock	6,667	\$0.0	0	D	

Explanation of Responses:

- All transactions reported on this Form 4 were made pursuant to a Rule 10b5-1(c) trading plan adopted by the reporting person on May 10, 2024.
- The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$268.53 to \$269.52. 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.
- The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$269.90 to \$270.87. 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.
- The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$271.02 to \$271.99. 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.
- The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$272.23 to \$272.99. 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.
- The price reported represents the weighted average sales price of shares sold in multiple transactions at prices ranging from \$273.32 to \$274.01. 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.
- 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.
- This stock option was fully vested and exercisable as of February 28, 2023.
- This stock option was fully vested and exercisable as of December 7, 2015.

By: Brett Budzinski, Attorney- 08/14/2024
in-Fact For: Kevin Fitzgerald

** 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.