FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 32350104

Estimated average burden
hours per
response: 0.5

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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* Fitzgerald Kevin Joseph (Last) (First) (Middle) 675 WEST KENDALL STREET HENRI A. TERMEER SQUARE (Street) CAMBRIDGE MA 02142 (City) (State) (Zip)		Statement y/Year)	3. Issuer Name and Ticker or Trading Symbol ALNYLAM PHARMACEUTICALS, INC. [ALNY]					
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title below) below) CSO & EVP, Head of Research			If Amendment, Date of Original Filed (Month/Day/Year) Individual or Joint/Group Filing (Check Applicable Line)			
	Table I - Nor	n-Derivat	ive Securities Benefic	cially Ov	vned			
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)	3. Owner Form: D (D) or In (I) (Instr	irect Ov	Nature of Indire wnership (Instr.		
Common Stock			12,881	Г)			
Common Stock			537	I	by	Managed Acc	fanaged Account(1)	
(e	.g., puts, cal	Is, warra	Underlying Derivative Security Conve		urities) 4. Conversion	5. Ownership	6. Nature of Indirect Beneficial	
	(Month/Day/	Expiration	(Instr. 4)	Amount or Number of Shares	or Exercis Price of Derivative Security	Direct (D)	Ownership (Instr. 5)	
Performance Stock Option 2017 (right to buy)	02/11/2021	03/01/2028	Common Stock	9,000	119.13	D		
Stock Option (right to buy)	(2)	02/28/2029	Common Stock	16,250	85	D		
Stock Option (right to buy)	(2)	12/07/2025	Common Stock	6,667	97.72	D		
Stock Option (right to buy)	(2)	02/26/2030	Common Stock	14,580	118.05	D		
Stock Option (right to buy)	(3)	03/01/2028	Common Stock	9,000	119.13	D		
Stock Option (right to buy)	(2)	02/23/2032	Common Stock	20,382	147.47	D		
Stock Option (right to buy)	(2)	02/24/2031	Common Stock	15,692	151.59	D		
Stock Option (right to buy)	(2)	03/01/2034	Common Stock	9,279	152.61	D		
Stock Option (right to buy)								

Explanation of Responses:

- 1. 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.
- 2. The stock option vests as to 25% of the shares on the first anniversary of the grant date and the remaining shares vest in equal installments at the end of each successive three-month period thereafter until the fourth anniversary of the grant date, subject to the Reporting Persons continuous service with the Issuer as of each such vesting date.
- 3. The stock option vests as to 25% of the shares on the first anniversary of the grant date and the remaining shares vest in equal installments at the end of each successive three-month period thereafter over the following thirty-three (33) months of the grant date, subject to the Reporting Persons continuous service with the Issuer as of each such vesting date.

Remarks:

Exhibit List: Exhibit 24 - Power of Attorney

** 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 5 (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.