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MARAGAN	ORE JOHN										
Form 4	010										
August 18, 2										PPROVAL	
FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549							OMMISSION	OMB Number:	3235-0287		
Check th if no long subject to Section 1 Form 4 o Form 5 obligatio may cont See Instru 1(b).	F CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES Section 16(a) of the Securities Exchange Act of 1934, Public Utility Holding Company Act of 1935 or Section of the Investment Company Act of 1940						January 31, 2005 Estimated average burden hours per response 0.5				
(Print or Type I	Responses)										
1. Name and Address of Reporting Person <u>*</u> MARAGANORE JOHN			2. Issuer Name and Ticker or Trading Symbol ALNYLAM				ng	5. Relationship of Reporting Person(s) to Issuer			
			PHARMACEUTICALS, INC. [ALNY]					(Check all applicable) X_ Director 10% Owner			
(Last)	(First) (M	Middle)	3. Date of Earliest Transaction			_X_ Officer (give title Other (specify below) below) CEO					
300 3RD STREET			08/17/2	-				CEO			
F			4. If Amendment, Date Original Filed(Month/Day/Year)					 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting 			
CAMBRID	GE, MA 02142							Person		ro	
(City)	(State)	(Zip)	Tabl	le I - Non-E	Derivative	Secur	ities Acq	uired, Disposed of	, or Beneficial	ly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		n Date, if		4. Securit on(A) or Dis (Instr. 3, 4) Amount	sposed	l of (D)	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)	
Common Stock	08/17/2010			M	50,000	(D) A	\$ 0.475	50,000	D		
Common Stock								1,430	I	by Managed Account	

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

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number.

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. Transactio Code (Instr. 8)	5. Number of orDerivative 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 Underlying Securities (Instr. 3 and 4)		8 E S (]
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (Right to buy)	\$ 0.475	08/17/2010		М	50,000	(2)	02/26/2013	Common Stock	50,000	

Reporting Owners

Reporting Owner Name / Address		Relationsh		
	Director	10% Owner	Officer	Other
MARAGANORE JOHN				
300 3RD STREET	Х		CEO	
CAMBRIDGE, MA 02142				
Signatures				
/s/ Patricia L. Allen, Attorney- Maraganore	08/18/2010			

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) The reporting person owns 1,430 shares of ALNY common stock under the ALNY 401(k) plan as a result of the ALNY 401(k) matching contribution program.
- (2) The stock option vests as to 25% of the shares on the 1st anniversary of the grant and as to an additional 6.25% of the shares on the last day of each calendar quarter thereafter.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.