

Reid Laurence
Form 3
June 03, 2010

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

OMB
Number: 3235-0104
Expires: January 31,
2005
Estimated average
burden hours per
response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting
Person *

Reid Laurence
(Last) (First) (Middle)

300 THIRD STREET
(Street)

CAMBRIDGE, MA 02142

(City) (State) (Zip)

2. Date of Event Requiring
Statement

(Month/Day/Year)
06/01/2010

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
____ Officer ____ Other
(give title below) (specify below)
SVP, Chief Business Officer

5. 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 Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security
(Instr. 4)

2. Amount of Securities
Beneficially Owned
(Instr. 4)

3. Ownership
Form:
Direct (D)
or Indirect
(I)
(Instr. 5)

4. Nature of Indirect Beneficial
Ownership
(Instr. 5)

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

SEC 1473 (7-02)

**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 control number.**

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security
(Instr. 4)

2. Date Exercisable and
Expiration Date
(Month/Day/Year)

Date Expiration
Exercisable Date

3. Title and Amount of
Securities Underlying
Derivative Security
(Instr. 4)

Title Amount or
Number of
Shares

4. Conversion
or Exercise
Price of
Derivative
Security

5. Ownership
Form of
Derivative
Security:
Direct (D)
or Indirect
(I)
(Instr. 5)

6. Nature of Indirect
Beneficial Ownership
(Instr. 5)

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| | | | | | | | |
|-----------------------------|---|------------|--------------|---------|---------|---|---|
| Stock Option (right to buy) | 1 | 06/01/2020 | Common Stock | 175,000 | \$ 15.4 | D | 1 |
|-----------------------------|---|------------|--------------|---------|---------|---|---|

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|--|-------|
| | Director | 10% Owner | Officer | Other |
| Reid Laurence 300 THIRD STREET CAMBRIDGE, MA 02142 | 1 | 1 | 1 SVP, Chief Business Officer | 1 |

Signatures

| | |
|--|------------|
| By: /s/ Patricia L. Allen, Attorney-in-Fact For: Laurence Reid | 06/03/2010 |
|--|------------|

Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) The stock option vests 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.
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