

Coissac Patrice
Form 4
February 22, 2011

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2015
Estimated average burden 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).

STATEMENT OF CHANGES IN 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

(Print or Type Responses)

1. Name and Address of Reporting Person *
Coissac Patrice

2. Issuer Name and Ticker or Trading Symbol
ALEXION PHARMACEUTICALS INC [ALXN]

5. Relationship of Reporting Person(s) to Issuer
(Check all applicable)
 Director 10% Owner
 Officer (give title below) Other (specify below)
SVP, Pres Alxn Pharm Int

(Last) (First) (Middle)

C/O ALEXION PHARMACEUTICALS, INC, 352 KNOTTER DRIVE

3. Date of Earliest Transaction (Month/Day/Year)
02/17/2011

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

CHESHIRE, CT 06410

(City) (State) (Zip)

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 Ownership (Instr. 4) |
|--|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | Code | V | Amount | (A) or (D) | Price |
| Common Stock, par value \$0.0001 per share | 02/17/2011 | | M | | 36,100 | A | \$ 14.08 |
| Common Stock, par value \$0.0001 per share | 02/17/2011 | | M | | 16,000 | A | \$ 10.36 |

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Common
Stock, par
value 02/17/2011 S 24,494 D \$ 92.41 66,547 D
\$.0001 per
share (1)

Common
Stock, par
value 02/17/2011 S 27,606 D \$ 93.25 38,941 D
\$.0001 per
share (2)

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

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.

SEC 1474
(9-02)

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 Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| | | | | Code | V (A) (D) | Date Exercisable Expiration Date | Title | |
| Option to Purchase Common Stock | \$ 14.08 | 02/17/2011 | | S | 36,100 | 11/07/2006 11/07/2015 | Common Stock | 36,100 |
| Option to Purchase Common Stock | \$ 10.36 | 02/17/2011 | | S | 16,000 | 04/09/2006 01/09/2016 | Common Stock | 16,000 |

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Coissac Patrice
C/O ALEXION PHARMACEUTICALS, INC
352 KNOTTER DRIVE

SVP, Pres Alxn Pharm Int

CHESHIRE, CT 06410

Signatures

/s/ Patrice

02/22/2011

Coissac

__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) This transaction was executed in multiple trades through a broker-dealer at prices ranging from \$92.05 - \$93.05. The price reported in this column reflects the weighted average sales price. Upon request, the reporting person will provide to the SEC staff full information regarding the number of shares sold at each price.

(2) This transaction was executed in multiple trades through a broker-dealer at prices ranging from \$93.06 - \$93.36. The price reported in this column reflects the weighted average sales price. Upon request, the reporting person will provide to the SEC staff full information regarding the number of shares sold at each price.

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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