Coissac Patrice Form 4 February 24, 2012

FORM 4

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

OMB 3235-0287 Number:

Expires:

OMB APPROVAL

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

January 31, 2005 Estimated average

Section 16. Form 4 or Form 5 obligations

may continue.

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

SECURITIES

burden hours per 0.5 response...

See Instruction 1(b).

(Print or Type Responses)

1. Name and A Coissac Pat	2. Issuer Name and Ticker or Trading Symbol ALEXION PHARMACEUTICALS INC [ALXN]					5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
(Last) C/O ALEXT PHARMAC KNOTTER	ACEUTICALS, INC, 352				ransaction			Director 10% Owner Officer (give title Other (specify below)			
CHESHIRE	(Street) E, CT 06410	endment, Date Original nth/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					
(City)	(State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								ly Owned		
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year) 2A. Deemed Execution Date, any (Month/Day/Year)		ned n Date, if	3. 4. Securities Acquired f Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5)			equired I 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	
Common Stock, par value \$.0001 per share	02/23/2012			Code V M	Amount 90,000	(D)	Price \$ 17.65		D		
Common Stock, par value \$.0001 per share	02/23/2012			S	90,000	D	\$ 85.03	85,882	D		

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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. 5. Number of TransactionDerivative Code Securities (Instr. 8) 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)		
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option to Purchase Common Stock	\$ 17.65	02/23/2012		M		5,628	04/09/2008	07/09/2017	Common Stock, par value \$.0001 per share	5,628
Option to Purcahse Common Stock	\$ 17.65	02/23/2012		M		84,372	04/09/2008	07/09/2017	Common Stock, par value \$.0001 per share	84,372

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

Coissac Patrice C/O ALEXION PHARMACEUTICALS, INC 352 KNOTTER DRIVE CHESHIRE, CT 06410

SVP & Pres. ALXN Pharma Int'l

Signatures

/s/ Patrice O2/24/2012 Coissac

**Signature of Date
Reporting Person

Reporting Owners 2

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).
- This transaction was executed in multiple trades through a broker-dealer at prices ranging from \$84.81 \$85.29. The price reported in this
- (1) 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. 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.