

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person * <u>Coissac Patrice</u> (Last) (First) (Middle) C/O ALEXION PHARMACEUTICALS, INC 352 KNOTTER DRIVE (Street) CHESHIRE CT 06410 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ALEXION PHARMACEUTICALS INC [ALXN]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>SVP & Pres. ALXN Pharma Int'l</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>08/27/2012</u>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		

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 Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, par value \$.0001 per share	08/27/2012		M		29,734	A	\$22.9	115,616	D	
Common Stock, par value \$.0001 per share	08/27/2012		M		12,198	A	\$42.66	127,814	D	
Common Stock, par value \$.0001 per share	08/27/2012		S		41,932	D	\$107.05 ⁽⁴⁾	85,882	D	
Common Stock, par value \$.0001 per share	08/28/2012		M		21,551	A	\$42.66	107,433	D	
Common Stock, par value \$.0001 per share	08/28/2012		S		21,551	D	\$106.37 ⁽²⁾	85,882	D	

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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Option to Purchase Common Stock	\$22.9	08/27/2012		M			29,734	04/28/2010	01/28/2020	Common Stock, par value \$.0001 per share	29,734	\$0	37,500	D	
Option to Purchase Common Stock	\$42.66	08/27/2012		M			12,198	05/02/2011	02/02/2021	Common Stock, par value \$.0001 per share	12,198	\$0	77,802	D	
Option to Purchase Common Stock	\$42.66	08/28/2012		M			21,551	05/02/2011	02/02/2021	Common Stock, par value \$.0001 per share	21,551	\$0	56,251	D	

Explanation of Responses:

- This transaction was executed in multiple trades through a broker-dealer at prices ranging from \$107.00 - \$107.99. 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.
- This transaction was executed in multiple trades through a broker-dealer at prices ranging from \$106.00 - \$106.99. 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.

/s/ Patrice Coissac

08/29/2012

** 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 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).

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.