## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	D.C. 20549
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).	\$
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## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

**OMB APPROVAL** OMB Number: Estimated average burden hours per response: 0.5

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

1. Name and Address of Reporting Person*  MATHIS LARRY						2. Issuer Name and Ticker or Trading Symbol ALEXION PHARMACEUTICALS INC ALXN									cable) or (give title			Owner (specify
(Last) (First) (Middle) 325 KNOTTER DR C/O ALEXION PHARMACEUTICALS INC						Date 0		iest Trans	action (N	/lonth	/Day/Year)		below)		b	elow)		
(Street) CHESHIRE CT 06410  (City) (State) (Zip)					4. 1	If Ame	endme	nt, Date o	of Origina	ıl File	d (Month/Da	Line	6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(0.5)				n-Deri	vativ	e Se	curit	ies Ac	auired	. Dis	sposed o	f. or Be	neficial	ly Owned	<u> </u>			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da				action	ction 2/ Exay/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		3. 4. S		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4		5. Amou Securiti Benefici Owned	nt of es ally Following	6. Owners Form: Dire (D) or Indi (I) (Instr. 4	ect c	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			Instr. 4)
Common Stock, par value \$.0001 per share 05/29/					9/2012	2012			M		18,000	A	\$5.552	.5 29	,115	D		
				9/2012	2012			М		15,000	A	\$8.17	5 44	,115	D			
Common Stock, par value \$.0001 per share 05/29/2					9/2012	2012			S		14,015	D	\$91.76	(1) 30	,100	D		
Common Stock, par value \$.0001 per share 05/29/.				9/2012	2012		S		18,985	D	\$92.29	(2) 11	,115	D				
		-	Table II								osed of, convertil			Owned				
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 on of		6. Date Exerci Expiration Dat (Month/Day/Ye		sable and te	7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owr Forr Dire or Ir (I) (II	.0. Ownership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares					
Option to Purchase Common Stock	\$5.5525	05/29/2012			M			18,000	03/10/20	005	12/10/2004	Common Stock, par value \$.0001 per share	18,000	\$0	0		D	
Option to Purchase Common	\$8.175	05/29/2012			S			15,000	09/07/20	006	06/07/2006	Common Stock, par value \$.0001	15,000	\$0	15,000	)	D	

## **Explanation of Responses:**

- 1. This transaction was executed in multiple trades through a broker-dealer at prices ranging from \$91.00 \$91.995. 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 \$92.00 \$92.99. 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/ Larry Mathis

05/31/2012

\*\* 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.