FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB AF	PPROVAL
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II	

37 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).

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* MAIN ALAN J				LE	2. Issuer Name and Ticker or Trading Symbol LEXICON PHARMACEUTICALS, INC./DE [LXRX]										all app Direc	o of Reportin licable) tor er (give title	10	% Owne	er	
(Last) (First) (Middle) 8800 TECHNOLOGY FOREST PLACE					3. Date of Earliest Transaction (Month/Day/Year) 08/12/2009										below				cony	
(Street) THE WOODL (City)			77381116 Zip)	0	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									S. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Nor	n-Deriv	ative	Se	curitie	s Acc	quired,	Disp	osed o	f, or	Bene	eficia	ally C	Owne	d			
1. Title of Security (Instr. 3) 2. Transa- Date (Month/Date					Execution		n Date,	Code (Transaction Disposed Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3,			4 and Secur Benet		cially Following	6. Ownersh Form: Direc (D) or Indir (I) (Instr. 4)	t of I ect Be Ow	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(1	A) or D)	Price	. [7	Transaction(s) (Instr. 3 and 4)				
Common Stock				08/12/2009					F ⁽¹⁾		5,924	4 D \$		\$1	1.3 38,8		3,876	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)	e Conversion or Exercise Price of Derivative Security Date (Month/Day/Year) Execution Date, if any (Month/Day/Year) Security Execution Date, if any (Month/Day/Year) Execution Date, if any (Date,	Transaction Code (Instr.		of Derive Security (A) of Disposor (Insti	of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)				9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (or Indir (I) (Inst	hip of Be O) Ov ect (In	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v					Expiration Date	Numbe of Title Shares										

Explanation of Responses:

1. Withholding of a portion of vested shares by the Company in satisfaction of shareholder's tax withholding obligations with respect thereto.

Remarks:

/s/ Main, Alan J.

08/14/2009

** 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.