FORM 4

Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	STATEME
Section 16. Form 4 or Form 5	
obligations may continue. See	

## INT 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*  BARKER SAM L					LI	2. Issuer Name <b>and</b> Ticker or Trading Symbol  LEXICON PHARMACEUTICALS,  INC./DE [ LXRX ]								neck all appl $\mathbf{X}$ Direct	cable) or	g Pers	son(s) to Issi 10% Ow	ner
(Last) 8800 TE	,	irst) GY FOREST PL	(Middle) ACE			3. Date of Earliest Transaction (Month/Day/Year) 04/30/2010								Office below	r (give title )		Other (s below)	pecify
(Street) THE TX 77381 WOODLANDS					4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								X Form filed by More than One Reporting Person  Ferson				
(City)	(S	tate)	(Zip)															
		Tab	le I - Noi	1-Deri	vativ	e Se	curities	Ac	quired, D	ispose	d o	f, or Be	neficia	ly Owne	k			
1. Title of Security (Instr. 3)  2. Transar Date (Month/Date)					Execution Date,			Code (Ins					Benefic	es ally Following	Form (D) or	. Ownership orm: Direct D) or Indirect ) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code V	Amo	unt	(A) or (D) Price		Transac (Instr. 3	tion(s)			(Instr. 4)	
		-							uired, Dis , options					Owned			,	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	e (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day/	Date,	4. Transa Code (l 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable an Expiration Date (Month/Day/Year)		nd	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactie (Instr. 4)	e O s Fe ally D o g (!)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable	Expirati Date	ion	Title	Amount or Number of Shares					
Stock Option (Right to Buy)	\$1.54	04/30/2010			A		20,000		(1)	04/30/2	020	Common Stock	20,000	\$0	20,00	0	D	

## **Explanation of Responses:**

1. Option vests with respect to 1/12th of the shares subject to the option for each month of service following the date of grant.

/s/ Samuel L. Barker

05/0<u>3/2010</u>

\*\* 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.