FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	VAL							
	OMB Number:	3235-0287							
l	Estimated average burden								
l	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* <u>CASKEY C THOMAS</u>						2. Issuer Name <b>and</b> Ticker or Trading Symbol  LEXICON GENETICS INC/TX [ LEXG ]									5. Relationshi (Check all app X Direct		licable)	ng Per	10% C	wner
(Last) (First) (Middle) 8800 TECHNOLOGY FOREST PLACE						3. Date of Earliest Transaction (Month/Day/Year) 08/05/2004										Offic belov	er (give title v)		Other below)	(specify
Street) THE WOODLANDS TX 773811160				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)										dividual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)			(Zip)	n-Deriv	ative S	Seci	ıritie	s Acc	nuired	Dis	nosed o	of o	r Ben	efic	ially	Owne	-d			
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transac Date (Month/Da					ction 2A. Deemed			ed Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A)				or 5. Am Secur Bene Owne		unt of ies ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount		(A) or (D)	Pric	e	Report Transa (Instr. 3	ction(s)			(Instr. 4)
Common	Stock			08/09/	2004	004		P		500 A		A	\$	5.2	4,300			D		
Common Stock 08/0				08/05/	/2004				P		200		A	\$5	\$5.57		200		I	As Custodian For Child
Common Stock																1,6	79,400		I	By Cogene Biotech Ventures, L.P.
		Т									sed of, onvertib					wned				
1. Title of Derivative Security  2. Conversion Date (Month/Day/Year)  3. Transaction Date Execution Date (Month/Day/Year)  6. Transaction Date (Month/Day/Year)  7. Transaction Date (Month/Day/Year)			ned n Date,	4. Transactio Code (Inst		5. Number of			xercis	sable and	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		I I	8. F Der Sec (Ins		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form Direct or Inc (I) (In	10. 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	Titl	or Nu of	nount mber ares						

**Explanation of Responses:** 

Remarks:

08/09/2004 /s/ Caskey, C. Thomas

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

<sup>\*</sup> If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).