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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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			or Section So(n) of the investment Company Act of 1940						
1. Name and Address of Reporting Person* BARKER SAM L			2. Issuer Name and Ticker or Trading Symbol <u>LEXICON GENETICS INC/TX</u> [LEXG]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
DARKER SAWIL				X	Director	10% Owner			
(Last) 8800 TECHNO	(First) OLOGY FORI	(Middle) EST PLACE	3. Date of Earliest Transaction (Month/Day/Year) 05/20/2004		Officer (give title below)	Other (specify below)			
(Street) THE WOODLAND	os ^{TX}	773811160	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	vidual or Joint/Group Fili Form filed by One Re Form filed by More th Person	eporting Person			
(City)	(State)	(Zip)							

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date,			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)				Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)

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. Transa Code (8)				6. Date Exerc Expiration Da (Month/Day/Y	ate	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	Amount or Number of Shares				
Stock Option (right to buy)	\$6.84	05/20/2004		A		6,000		(1)	05/20/2014	Common Stock	6,000	\$0	6,000	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.

Remarks:

<u>/s/ Barker, Sam L.</u>

** Signature of Reporting Person

<u>05/20/2004</u> 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.