

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
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1. Name and Address of Reporting Person * GREGORY JULIA P (Last) (First) (Middle) 8800 TECHNOLOGY FOREST PLACE (Street) THE WOODLANDS TX 773811160 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol LEXICON GENETICS INC/TX [LEXG]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) EVP, Corp Dev and CFO
	3. Date of Earliest Transaction (Month/Day/Year) 05/03/2004	
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/03/2004		M		30,000	A	\$2.5	98,400	D	
Common Stock	05/03/2004		S		3,160	D	\$7.06	95,240	D	
Common Stock	05/03/2004		S		200	D	\$7.07	95,040	D	
Common Stock	05/03/2004		S		800	D	\$7.09	94,240	D	
Common Stock	05/03/2004		S		7,820	D	\$7.1	86,420	D	
Common Stock	05/03/2004		S		4,523	D	\$7.11	81,897	D	
Common Stock	05/03/2004		S		2,497	D	\$7.12	79,400	D	
Common Stock	05/03/2004		S		3,000	D	\$7.13	76,400	D	
Common Stock	05/03/2004		S		3,100	D	\$7.14	73,300	D	
Common Stock	05/03/2004		S		2,817	D	\$7.15	70,483	D	
Common Stock	05/03/2004		S		1,200	D	\$7.16	69,283	D	
Common Stock	05/03/2004		S		500	D	\$7.19	68,783	D	
Common Stock	05/03/2004		S		3,483	D	\$7.2	65,300	D	
Common Stock	05/03/2004		S		104	D	\$7.21	65,196	D	
Common Stock	05/03/2004		S		900	D	\$7.22	64,296	D	
Common Stock	05/03/2004		S		1,503	D	\$7.24	62,793	D	
Common Stock	05/03/2004		S		393	D	\$7.25	62,400	D	
Common Stock								6,647	I	By Family Trusts for Minor Children

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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		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					

**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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		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				
Employee Stock Option (right to buy)	\$2.5	05/03/2004		M			30,000	(1)	02/08/2010	Common Stock	30,000	\$0	435,000	D	

Explanation of Responses:

1. Option vests with respect to 1/48th of the shares subject to the option for each month of service following the date of grant (2/8/2000).

Remarks:

/s/ Gregory, Julia P.

05/05/2004

** 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.