FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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* ROSE CLAYTON STUART						2. Issuer Name and Ticker or Trading Symbol LEXICON GENETICS INC/TX [LEXG]									Check all a	hip of Reporting P pplicable) ector		rson(s) to Is	
(Last) 8800 TE	,	rst) (GY FOREST PL	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 08/04/2004										ficer (give title low)		Other (specify below)	
(Street) THE WOODL			77381116 (Zip)	0	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Apline) X Form filed by One Reporting Person										on			
		Tabl	le I - Noi	า-Deriง	/ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	fici	ally Ow	ned			
1. Title of Security (Instr. 3) 2. Trans: Date (Month/L					2A. Deemed Execution Date, if any (Month/Day/Yea		n Date,	3. Transa Code (8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			(A) or 3, 4 a	nd Sec Ber Ow	mount of urities eficially ned Following orted	Forr (D)	ownership m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	()	A) or D)	Price	Trai	isaction(s) tr. 3 and 4)			(111311. 4)	
Common Stock 08/04						/2004					500		A	\$5.	79	500		D	
Common Stock 08/04					1/2004				P		6,984	1	A	\$5	.8	8 7,484		D	
Common Stock 08/					4/2004				P		2,516	6	A	\$6.	01	1 10,000		D	
		Та	able II - I)								sed of, onvertib				y Owne	d			
1. Title of Derivative Security (Instr. 3)	ive Conversion Date Execution or Exercise (Month/Day/Year) if any		Date,	Code (Instr.		of Deriv Secu Acqu (A) o Disp of (D	r osed) r. 3, 4	6. Date E Expiratio (Month/D	n Date	9	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amour or Numbe of Title Shares		unt ber	8. Price of Derivative Security (Instr. 5)		y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

Remarks:

/s/ Rose, Clayton S.

08/05/2004

** 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.