FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
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-	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

Name and Address of Reporting Person*			2. Issuer Name and Ticker or Trading Symbol LEXICON GENETICS INC/TX [LEXG]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)								
SANDS ARTHUR T			-	LEAICON GENETICS INC/1A [LEXG]						Ι,	X Directo	,	10% Owner		wner				
(Last) (First) (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 08/15/2005							\dashv	X Officer (give title below) Other (specify below) Pres & CEO							
8800 TE	CHNOLOC	GY FOREST PL	ACE			2 /ט 1 וע	2003								ries	X CEC	J		
(Street)					4.	If Ame	endme	ent, Date o	f Origina	ıl File	d (Month/Da	ıy/Year)		ndividual or J	oint/Grou	p Filing ((Check App	olicable	
THE WOODI	ANDS T	X	77381116	50									- 1	Line) X Form filed by One Reporting Person					
					_									Form fi Person		ore than	One Repoi	rting	
(City)	(S	tate)	(Zip)																
		Та	ble I - No	on-De	rivati	ve Se	ecur	ities Ac	quired	l, Di	sposed o	of, or Be	neficiall	y Owned					
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		ear) E	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Dispose Code (Instr.		4. Securiti Disposed	ties Acquired (A) or d Of (D) (Instr. 3, 4 and		Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct II ndirect B r. 4) C	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)			
Common	Stock			08/1	15/200	5			M		682,50	0 A	\$0.000	833,	362	I)		
Common	Stock			08/15/20		2005		S		8,805	D	\$4.71	824,	557	I)			
Common	Stock			08/15/2		2005		S		236,89	5 D	\$4.6	587,662		I)			
Common	Stock													817,	500]	I A	By Sands Associates L.P.	
Common Stock												60,0	60,000		a I C F	By Spouse s Custodian For Children			
			Table II								oosed of		-	Owned					
1. Title of Derivative Conversion Security (Instr. 3) 2. Derivative Security Price of Derivative Security 1. Title of Date S. Transaction Date (Month/Day/Year) 2. Defive de Execution Date, if any (Month/Day/Year)		4. Transa	ansaction Dode (Instr. Se		5. Number of Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)			d Amount ies g	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactio	ve Ownersl es Form: ally Direct (C or Indire tg (I) (Instr.	Ownership	Beneficial Ownership ect (Instr. 4)				
				c	Code	v	(A)		Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)				
Employee Stock Option (right to buy)	\$0.00 ⁽²⁾	08/15/2005			M			682,500	(3)		09/14/2005	Common Stock	682,500	\$0	0.0	00	D		
			<u> </u>																

Explanation of Responses:

- 1. Purchase price of \$0.00033 per share
- 2. Exercise price of \$0.00033 per share
- 3. Option vested with respect to 1/48th of the shares subject to the option for each month of service following the date of grant (9/14/1995).

Remarks:

By: /s/ Arthur T. Sands

08/16/2005

** 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.