OMB APPROVAL		
OMB Number:	3235-0145	
Expires:	December 31, 2005	
Estimated average burden		
hours per response 11		

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

Lexicon Genetics Incorporated
(Name of Issuer)
Common Stock, \$0.001 par value per share
(Title of Class of Securities)
528872104
(CUSIP Number)
December 31, 2006
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
☐ Rule 13d-1(b)
⊠ Rule 13d-1(c)
☐ Rule 13d-1(d)
* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for an

subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Schedule 13G		Page 2 of 10
CUSIP No. 52887210	04	
	ation Nos. of above persons (entities only).	
Invus Public Equ 2. Check the Appro (a) □ (b) □	putities, L.P. 98-0420215 ropriate Box if a Member of a Group (See Instructions)	
3. SEC Use Only		
4. Citizenship or Pl	Place of Organization	
4,687,200	5. Sole Voting Power 0 6. Shared Voting Power 4,687,200 7. Sole Dispositive Power 0 8. Shared Dispositive Power 4,687,200 ount Beneficially Owned by Each Reporting Person gregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11. Percent of Class6.01%	s Represented by Amount in Row (9)	
12. Type of Reportir	ng Person (See Instructions)	
DN		

Schedule 13G		Page 3 of 10
CUSIP No. 52887210	14	
Names of Report I.R.S. Identificat	ting Persons. ion Nos. of above persons (entities only).	
Invus Public Equ	uities Advisors, L.L.C. 98-0420201	
(a) □ (b) □	opriate Box if a Member of a Group (See Instructions)	
3. SEC Use Only		
4. Citizenship or Pl	ace of Organization	
Delaware		
	5. Sole Voting Power	
NUMBER OF	0	
SHARES	6. Shared Voting Power	
BENEFICIALLY OWNED BY	4,687,200	
EACH	7. Sole Dispositive Power	
REPORTING		
PERSON WITH:	8. Shared Dispositive Power	
	4,687,200	
9. Aggregate Amou	ant Beneficially Owned by Each Reporting Person	
4,687,200		
	gregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11. Percent of Class	Represented by Amount in Row (9)	
6.01%		
12. Type of Reportin	g Person (See Instructions)	
00		

Schedule 13G		Page 4 of 10
CUSIP No. 52887210	04	
	tion Nos. of above persons (entities only).	
Ulys, L.L.C.	83-0359139	
2. Check the Appro(a) □(b) □	opriate Box if a Member of a Group (See Instructions)	
3. SEC Use Only		
4. Citizenship or P	Place of Organization	
Delaware		
NUMBER OF SHARES	5. Sole Voting Power 0	
BENEFICIALLY OWNED BY	6. Shared Voting Power 4,687,200	
EACH REPORTING	7. Sole Dispositive Power 0	
PERSON WITH:	8. Shared Dispositive Power 4,687,200	
9. Aggregate Amor	ount Beneficially Owned by Each Reporting Person	
4,687,200		
10. Check if the Agg	gregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11. Percent of Class	s Represented by Amount in Row (9)	
6.01%		
12. Type of Reporting	ng Person (See Instructions)	
00		

Schedule 13G		Page 5 of 10
CUSIP No. 52887210	14	
1. Names of Report		
I.R.S. Identificati	ion Nos. of above persons (entities only).	
Raymond Debba	ine	
	opriate Box if a Member of a Group (See Instructions)	
(a) 🗆		
(b) □ 3. SEC Use Only		
5. SEC Use Only		
4. Citizenship or Pl	ace of Organization	
Panama		
r dildilld	5. Sole Voting Power	
NUMBER OF	0	
SHARES	6. Shared Voting Power	
BENEFICIALLY OWNED BY	4,687,200	
EACH	7. Sole Dispositive Power	
REPORTING		
PERSON	0	
WITH:	8. Shared Dispositive Power	
	4,687,200	
IN		
9. Aggregate Amou	unt Beneficially Owned by Each Reporting Person	
4,687,200		
	gregate Amount in Row (9) Excludes Certain Shares (See Instructions)	
11. Percent of Class	Represented by Amount in Row (9)	
6.01%		
12. Type of Reportin	ng Person (See Instructions)	
IN		
111		

Item 1 (a). Name of Issuer:

Lexicon Genetics, Inc.

Item 1 (b). Address of Issuer's Principal Executive Offices:

8800 Technology Forest Place The Woodlands, Texas 77381

Item 2 (a). Name of Person Filing:

Item 2 (b). Address of Principal Business Office or, if none, Residence:

Item 2 (c). Citizenship:

Invus Public Equities, L.P. 750 Lexington Avenue 30th Floor

New York, New York 10022

Bermuda

Invus Public Equities Advisors, L.L.C.

750 Lexington Avenue

30th Floor

New York, New York 10022

Delaware

Ulys, LLC

750 Lexington Avenue

30th Floor

New York, New York 10022

Delaware

Raymond Debbane

c/o Ulys, L.L.C.

750 Lexington Avenue

30th Floor

New York, New York 10022

Panama

Item 2 (d). Title of Class of Securities:

Common Stock, \$0.001 par value per share

Item 2 (e). CUSIP Number:

528872104

Item	3.	If thi	s statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:	
(a)	□ Br	oker or (dealer registered under section 15 of the Act (15 U.S.C. 780).	
(b)	□Ва	☐ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).		
(c)	\square Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).			
	(d)	□ Inve	estment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).	
(e)	□ Ar	ı investn	nent adviser in accordance with §240.13d-1(b)(1)(ii)(E);	
	(f)	□ An e	employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);	
(g)	A parent holding company or control person in accordance with $240.13d-1(b)(1)(ii)(G)$;			
	(h)	□ A sa	avings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);	
	(i)	□ A cl U.S.C.	nurch plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1980a-3);	940 (15
(j)	\square Group, in accordance with §240.13d-1(b)(1)(ii)(J).			
Item	4.	Own	ership.	
	(a)	Amoun	at beneficially owned: 4,687,200 common shares	
	(b)	Percent	t of class: 6.01%	
	(c) Number of shares as to which each person has:			
		(i)	Sole power to vote or to direct the vote	
		(ii)	Shared power to vote or to direct the vote 4,687,200 common shares.	
		(iii)	Sole power to dispose or to direct the disposition of	
		(iv)	Shared power to dispose or to direct the disposition of 4,687,200 common shares.	
Item	5.	Own	ership of Five Percent or Less of a Class	
			ent is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than free class of securities, check the following □.	ve

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which acquired the Security Being Reported on By the Parent Holding Company.

Not Applicable

Item 8. Identification and Classification of Members of the Group.

Not Applicable

Item 9. Notice of Dissolution of Group.

Not Applicable

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

INVUS PUBLIC EQUITIES, L.P.

By: Invus Public Equities Advisors, L.L.C., As General Partner

By: /s/ Raymond Debbane

Raymond Debbane, President

INVUS PUBLIC EQUITIES ADVISORS, L.L.C.

By: /s/ Raymond Debbane
Raymond Debbane, President

ULYS, L.L.C.

By: /s/ Raymond Debbane

Raymond Debbane, President

RAYMOND DEBBANE

By: /s/ Raymond Debbane

Raymond Debbane, President

Exhibit A

JOINT FILING AGREEMENT

JOINT FILING AGREEMENT, dated as of the 15th day of March, 2007, among INVUS PUBLIC EQUITIES, L.P., INVUS PUBLIC EQUITIES ADVISORS, LLC, ULYS, LLC, and FAYMOND DEBBANE (COLLECTIVELY, THE "JOINT FILERS").

WHEREAS, pursuant to Rule 13d-1(b)(1)(ii)(K) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), the parties hereto desire to satisfy any filing obligation under Section 13(g) of the Exchange Act by a single joint filing;

NOW, THEREFORE, in consideration of the premises and the mutual covenants herein contained, the Joint Filers hereby agree and represent as follows:

- 1. Exhibit A to the Schedule 13G Amendment No. 1 with respect to the Common Stock, par value \$0.001 per share, of Lexicon Genetics Incorporated (to which this Joint Filing Agreement is an exhibit) is filed on behalf of each of the Joint Filers.
 - 2. Each of the Joint filers is eligible to use Schedule 13G for the filing of information therein.
- 3. Each of the Joint Filers is responsible for the timely filing of Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein, provided that each such person is not responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate.

[SIGNATURES APPEAR ON FOLLOWING PAGE]

IN	WITNESS WHEREOF, each of the undersigned has caused this Joint Filing Agreement to be duly executed and delivered as of the date first above
written.	
Dated: M	arch 15, 2007

INVUS PUBLIC EQUITIES, L.P.

By: Invus Public Equities Advisors, L.L.C.,

As General Partner

By: /s/ Raymond Debbane

Raymond Debbane, President

INVUS PUBLIC EQUITIES ADVISORS, L.L.C.

By: /s/ Raymond Debbane

Raymond Debbane, President

ULYS, L.L.C.

By: /s/ Raymond Debbane

Raymond Debbane, President

RAYMOND DEBBANE

By: /s/ Raymond Debbane

Raymond Debbane