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

# **FORM 8-K**

## **CURRENT REPORT**

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): April 29, 2008

# Lexicon Pharmaceuticals, Inc.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization)

000-30111 (Commission File Number)

76-0474169 (I.R.S. Employer **Identification Number)** 

8800 Technology Forest Place The Woodlands, Texas 77381 (Address of principal executive offices and Zip Code)

#### (281) 863-3000 (Registrant's telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligations of the registrant under any of the following provisions:

Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) 

Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)) 

### Item 2.02 Results of Operations and Financial Condition

On April 29, 2008, we issued a press release to report our financial results for the quarter ended March 31, 2008. A copy of the press release is attached to this current report on Form 8-K as Exhibit 99.1.

The information in this Form 8-K and the Exhibit attached to this Form 8-K shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act, except as expressly set forth by specific reference in such a filing.

## Item 9.01 Financial Statements and Exhibits

#### (d) Exhibits

Exhibit No.	Description
99.1	 Press Release of Lexicon Pharmaceuticals, Inc. dated April 29, 2008

# Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

## Lexicon Pharmaceuticals, Inc.

Date: April 29, 2008

By: /s/ Jeffrey L. Wade Jeffrey L. Wade Executive Vice President and General Counsel

## **Index to Exhibits**

Exhibit No.Description99.1--Press Release of Lexicon Pharmaceuticals, Inc. dated April 29, 2008

#### LEXICON PHARMACEUTICALS REPORTS 2008 FIRST QUARTER FINANCIAL RESULTS

#### Conference Call and Webcast at 5:00 p.m. Eastern Time

**The Woodlands, Texas, April 29, 2008** – Lexicon Pharmaceuticals, Inc. (Nasdaq: LXRX), a biopharmaceutical company focused on discovering and developing breakthrough treatments for human disease, today updated its drug development progress and reported financial results for the three months ended March 31, 2008.

"We are continuing to advance our diverse target portfolio into clinical development," said Dr. Arthur T. Sands, president and chief executive officer of Lexicon. "Our clinical programs are progressing, and recent positive results reinforce the company's drug discovery strategy."

#### Highlights

#### Clinical Achievements

- § Lexicon obtained encouraging results from its initial Phase 1 clinical trial of LX2931, the company's oral drug candidate for autoimmune conditions, including rheumatoid arthritis. Initial results from this single ascending-dose trial in healthy volunteers demonstrated a potent, dose-dependent reduction in circulating lymphocytes, suggesting that the target of LX2931 represents a potential new mechanism of action for regulating the immune response.
- § The company reported Phase 1 results for LX6171, an internally-developed compound under evaluation by the company as a potential treatment for cognitive disorders, at the American Academy of Neurology in Chicago on April 15, 2008. Initial human studies showed that the compound achieved good systemic exposure and was well tolerated at the doses studied. The target of LX6171, identified through Lexicon's Genome5000<sup>™</sup> program, was disclosed as SLC6A7, a high-affinity L-proline transporter found in the brain. SLC6A7 represents a potential new mechanism of action for the treatment of cognitive disorders. LX6171 is currently in a Phase 2 study for age-associated memory impairment in elderly subjects.
- § Lexicon commenced initial Phase 1 dosing for LX1032, the company's oral drug candidate for managing gastrointestinal symptoms associated with carcinoid syndrome. The initial Phase 1 clinical trial of LX1032 is a double-blind, randomized, placebo-controlled, ascending single-dose study in healthy volunteers.

#### **Financial Results**

**Revenues:** Lexicon's revenues for the three months ended March 31, 2008 decreased 34 percent to \$8.9 million from \$13.5 million for the corresponding period in 2007. The decrease was primarily attributable to the completion in 2007 of the project funded by Lexicon's award from the Texas Enterprise Fund, reduced revenues in the three months ended March 31, 2008 under its alliance with N.V. Organon due to its progress towards completing the target discovery portion of the alliance, and the completion in 2007 of the target discovery portion of its alliance with Takeda Pharmaceutical Company Limited.

**Research and Development Expenses:** Research and development expenses for the three months ended March 31, 2008 increased two percent to \$27.8 million from \$27.3 million for the corresponding period in 2007. The increase was primarily due to higher preclinical and clinical costs related to the advancement of Lexicon's drug development programs, partially offset by decreased research expenses as a result of the company's January 2007 realignment reallocating resources from genetics research efforts to drug development.

**General and Administrative Expenses:** General and administrative expenses for the three months ended March 31, 2008 increased four percent to \$5.5 million from \$5.3 million for the corresponding period in 2007.

**Net Loss:** Net loss for the three months ended March 31, 2008 was \$18.0 million, or \$0.13 per share, compared to net loss of \$18.9 million, or \$0.24 per share, in the corresponding period in 2007. Net loss included non-cash, stock-based compensation expense of \$1.8 million for the three months ended March 31, 2008 and \$1.6 million for the corresponding period in 2007.

**Cash and Investments:** As of March 31, 2008, Lexicon had \$228.8 million in cash and investments, including \$33.4 million in cash and investments held by Symphony Icon, as compared to \$258.8 million as of December 31, 2007.

#### Lexicon Conference Call:

Lexicon management will hold a conference call to discuss its clinical development progress and financial results for the first quarter of 2008 at 5:00 p.m. Eastern Time on April 29, 2008. The dial-in number for the conference call is 866-316-1364 (within the United States) or 913-312-6667 (international). The pass code for all callers is 7581545. Investors can access a live webcast of the call at <u>www.lexpharma.com</u>. An archived version of the webcast will be available on the website through May 2, 2008.

#### **About Lexicon**

Lexicon is a biopharmaceutical company focused on discovering and developing breakthrough treatments for human disease. Through its proprietary gene knockout technology, the company is dedicated to discovering and developing breakthrough treatments for human disease. Lexicon currently has development programs underway for such areas of major unmet medical need as irritable bowel syndrome, cognitive disorders, autoimmune diseases, and carcinoid syndrome. The company has used its proprietary gene knockout technology to discover more than 100 promising drug targets and create an extensive pipeline of clinical and preclinical programs in the therapeutic areas of cardiology, gastroenterology, immunology and oncology, metabolism, neurology and ophthalmology. To focus its commitment, Lexicon initiated its 10<sub>TO</sub>10 program to advance 10 new drug candidates into human clinical trials by the end of 2010. To advance the development and

commercialization of its programs, Lexicon is working both independently and through collaborators including Bristol-Myers Squibb Company, Genentech, Inc. and N.V. Organon. For additional information about Lexicon and its programs, please visit <u>www.lexpharma.com</u>.

#### Safe Harbor Statement

This press release contains "forward-looking statements," including statements relating to Lexicon's clinical development of LX6171, LX2931 and LX1032 and the potential therapeutic and commercial potential of LX6171, LX2931 and LX1032. This press release also contains forward-looking statements relating to Lexicon's growth and future operating results, discovery and development of products, strategic alliances and intellectual property, as well as other matters that are not historical facts or information. All forward-looking statements are based on management's current assumptions and expectations and involve risks, uncertainties and other important factors, specifically including those relating to Lexicon's ability to successfully conduct clinical development of LX6171, LX2931 and LX1032 and preclinical and clinical development of its other potential drug candidates, advance additional candidates into preclinical and clinical development, obtain necessary regulatory approvals, achieve its operational objectives, obtain patent protection for its discoveries and establish strategic alliances, as well as additional factors relating to manufacturing, intellectual property rights, and the therapeutic or commercial value of its drug candidates, that may cause Lexicon's actual results to be materially different from any future results expressed or implied by such forward-looking statements. Information identifying such important factors is contained under "Factors Affecting Forward-Looking Statements" and "Risk Factors" in Lexicon undertakes no obligation to update or revise any such forward-looking statements, whether as a result of new information, future events or otherwise.

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# Lexicon Pharmaceuticals, Inc.

#### **Selected Financial Data**

Consolidated Statements of Operations Data	 Three Months Ended March 31,			
(In thousands, except per share data)	 2008		2007	
	 (unaudited)			
Revenues:				
Collaborative research	\$ 7,634	\$	12,271	
Subscription and license fees	1,259		1,224	
Total revenues	8,893		13,495	
Operating expenses:				
Research and development, including stock-based compensation of \$1,127 and \$991, respectively	27,802		27,290	
General and administrative, including stock-based compensation of \$652 and \$568, respectively	5,529		5,300	
Total operating expenses	33,331		32,590	
Loss from operations	(24,438)		(19,095)	
Interest income	2,781		880	
Interest expense	(670)		(688)	
Other expense, net	(547)		(12)	
Loss before noncontrolling interest in Symphony Icon, Inc.	(22,874)		(18,915)	
Loss attributable to noncontrolling interest in Symphony Icon, Inc.	4,924		_	
Net loss	\$ (17,950)	\$	(18,915)	
Net loss per common share, basic and diluted	\$ (0.13)	\$	(0.24)	
Shares used in computing net loss per common share, basic and diluted	136,795		77,938	

Consolidated Balance Sheet Data (In thousands)	As o	As of March 31, 2008		As of December 31, 2007	
	(u	inaudited)			
Cash and investments, including cash and investments held by Symphony Icon, Inc.	\$	228,796	\$	258,775	
Property and equipment, net		69,650		70,829	
Goodwill		25,798		25,798	
Total assets		336,573		369,296	
Deferred revenue		27,860		34,156	
Current and long-term debt		31,156		31,373	
Noncontrolling interest in Symphony Icon, Inc.		25,347		30,271	
Accumulated deficit		(428,485)		(410,535)	
Total stockholders' equity		237,801		256,300	