

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

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the Securities
Exchange Act of 1934 (Amendment No.)

Filed by the Registrant
Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a- 6(e)(2))**
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material Pursuant to §240.14a-12

LEXICON PHARMACEUTICALS, INC.

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

Fee paid previously with preliminary materials.

Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:



8800 Technology Forest Place
The Woodlands, Texas 77381

August 10, 2007

Dear Fellow Stockholder:

According to our latest records, we have not yet received your proxy for the important Special Meeting of Lexicon Pharmaceuticals, Inc. stockholders, to be held on August 23, 2007. **Your Board of Directors unanimously recommends that stockholders vote FOR both proposals on the agenda.**

Please help your company avoid the expense of further solicitation by voting TODAY by telephone, via the Internet, or by signing, dating and returning the enclosed proxy card in the envelope provided.

Thank you for your cooperation.

Very truly yours,

A handwritten signature in black ink that reads "Jeffrey L. Wade".

Jeffrey L. Wade
Secretary

REMEMBER:

**You can vote your shares by telephone, or via the Internet.
Please follow the easy instructions on the enclosed card.**

If you have any questions, or need assistance in the last-minute voting your shares, please call our proxy solicitor,

**INNISFREE M&A INCORPORATED
TOLL-FREE, at (888) 750-5834.**

Lexicon has filed a proxy statement and other documents with the Securities and Exchange Commission relating to the approval of the Invus transactions. Stockholders are urged to carefully read the proxy statement, because it contains important information regarding Lexicon and the Invus transactions. A definitive proxy statement has been sent to stockholders seeking their approval of the Invus transactions. Stockholders may obtain a free copy of the proxy statement and other documents containing information about Lexicon, without charge, at the SEC's website at www.sec.gov. Copies of the definitive proxy statement and the SEC filings that are incorporated by reference in the proxy statement may also be obtained for free by directing a request to Lexicon Pharmaceuticals, Inc., 8800 Technology Forest Place, The Woodlands, Texas 77381, Attention: Corporate Communications.

Lexicon and its officers and directors may be deemed to be participants in the solicitation of proxies from the stockholders. Information about these persons can be found in Lexicon's Annual Report on Form 10-K filed with the SEC, and additional information about such persons may be obtained from the proxy statement.

