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

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**FORM 8-K**

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**CURRENT REPORT**

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

Date of Report (Date of earliest event reported):

February 17, 2010

**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))
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**Item 5.02    Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers;  
Compensatory Arrangements of Certain Officers**

(b)            On February 17, 2010, Kathleen M. Wiltsey notified us of her decision to resign from our board of directors, effective February 17, 2010. Ms. Wiltsey's resignation was not as a result of any disagreement with the Company on any matter relating to the Company's operations, policies or practices.

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## 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: February 22, 2010

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