

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

**25 June 2010**

**ORDER GRANTING CONFIDENTIAL TREATMENT  
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

**Lexicon Pharmaceuticals, Inc.**

**File No. 0-30111 -- CF# 25210**

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Lexicon Pharmaceuticals, Inc. submitted an application under Rule 24b-2 requesting confidential treatment for information it excluded from the Exhibits to a Form 10-Q filed on May 10, 2010.

Based on representations by Lexicon Pharmaceuticals, Inc. that this information qualifies as confidential commercial or financial information under the Freedom of Information Act, 5 U.S.C. 552(b)(4), the Division of Corporation Finance has determined not to publicly disclose it. Accordingly, excluded information from the following exhibit(s) will not be released to the public for the time period(s) specified:

Exhibit 10.1 through December 31, 2019

For the Commission, by the Division of Corporation Finance, pursuant to delegated authority:

Timothy S. Levenberg  
Special Counsel