

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
February 27, 2012**

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

Astex Pharmaceuticals, Inc.

File No. 0-27628 - CF#27840

Astex Pharmaceuticals, Inc. submitted an application under Rule 24b-2 requesting confidential treatment for information it excluded from the Exhibits to a Form 8-K filed on January 20, 2012.

Based on representations by Astex 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 will not be released to the public for the time period specified:

Exhibit 99.1 through January 20, 2022

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

Sonia Barros
Special Counsel