

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

August 31, 2010

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

Alexza Pharmaceuticals, Inc.

File No. 000-51820 - CF# 25454

Alexza 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 July 26, 2010.

Based on representations by Alexza 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 10.4 through June 30, 2015

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

Sonia Gupta Barros
Special Counsel