

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
November 20, 2009**

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

**Rosetta Genomics Ltd.  
File No. 001-33042 - CF# 24116**

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Rosetta Genomics Ltd. submitted an application under Rule 24b-2 requesting confidential treatment for information it excluded from the Exhibits to a Form 6-K filed on September 9, 2009.

Based on representations by Rosetta Genomics Ltd. 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 99.4                      through September 10, 2012

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

Jeffrey P. Riedler  
Assistant Director