

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
June 10, 2010**

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

**Synta Pharmaceuticals Corp.**

**File No. 001-33277 - CF# 25145**

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Synta Pharmaceuticals Corp. 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 4, 2010.

Based on representations Synta Pharmaceuticals Corp. 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 10.1                      through December 31, 2013

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

Sonia G. Barros  
Special Counsel