

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
January 4, 2012**

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

**Helicos BioSciences Corporation**

**File No. 001-33484- CF#27612**

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Helicos BioSciences Corporation submitted an application under Rule 24b-2 requesting confidential treatment for information it excluded from the Exhibits to a Form 10-Q filed on November 14, 2011.

Based on representations by Helicos BioSciences Corporation 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 August 23, 2016

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

Jennifer Riegel  
Special Counsel