

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
August 1, 2014**

**ORDER GRANTING CONFIDENTIAL TREATMENT  
UNDER THE SECURITIES ACT OF 1933**

**Loxo Oncology, Inc.**

**File No. 333-197123 - CF#31281**

---

Loxo Oncology, Inc. submitted an application under Rule 406 requesting confidential treatment for information it excluded from the Exhibits to a Form S-1 registration statement filed on June 30, 2014, as amended.

Based on representations by Loxo Oncology, 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(s) will not be released to the public for the time period(s) specified:

Exhibit 10.7                      through June 16, 2024

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

Kevin M. O'Neill  
Deputy Secretary