

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
December 20, 2017**

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

Ionis Pharmaceuticals, Inc.

File No. 0-19125 - CF#35771

Ionis Pharmaceuticals, Inc. (formerly Isis Pharmaceuticals, Inc.) submitted an application under Rule 24b-2 requesting an extension of a previous grant of confidential treatment for information it excluded from the Exhibits to a Form 10-K filed on February 28, 2013.

Based on representations by Ionis 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 10.46 through December 10, 2022

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

Brent J. Fields
Secretary