

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
March 19, 2019**

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

Aeglea BioTherapeutics, Inc.

File No. 1-37722 - CF#37338

Aeglea BioTherapeutics, Inc. submitted an application under Rule 24b-2 requesting confidential treatment for information it excluded from the Exhibits to a Form 10-K filed on March 7, 2019.

Based on representations Aeglea BioTherapeutics, 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 10.18 through March 11, 2029

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

Vanessa Countryman
Acting Secretary