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William Slattery, CFA
Vice President
Listing Qualifications

001-37722

Electronic Mail Only

Received SEC

March 31st, 2016

MAR 31 2016

Mr. Jeffrey Thomas
Chief, IT Services
Division of Corporation Finance
U.S. Securities and Exchange Commission
100 F Street, N.E.
Washington, D.C. 20549

Washington, DC 20549

CERTNAS

Dear Mr. Thomas:

This is to certify that on March 28th, 2016 The Nasdaq Stock Market (the "Exchange") received from **Aeglea BioTherapeutics, Inc.** (the "Registrant") a copy of the Registrant's application on Form 8-A 12(b) for the registration of the following security:

Common stock, par value \$0.0001 per share

We further certify that the security described above has been approved by the Exchange for listing and registration upon official notice of issuance.

We understand that the Registrant is seeking effectiveness of the Form 8-A 12(b) concurrently with effectiveness of its 1933 Act Registration Statement, and we hereby join in such request.

Sincerely,

William Slattery

This is to certify that on March 28th, 2016 The Nasdaq Stock Market (the "Exchange") received from **Aeglea BioTherapeutics, Inc.** (the "Registrant") a copy of the Registrant's application on Form 8-A 12(b) for the registration of the following security:

The NASDAQ Stock Market LLC, 805 King Farm Blvd., Rockville, MD 20850

We further certify that the security described above has been approved by the Exchange for listing and registration upon official notice of issuance.