

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES
PURSUANT TO SECTION 12(b) OR (g) OF
THE SECURITIES EXCHANGE ACT OF 1934

APREA THERAPEUTICS, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State of incorporation or organization)

84-2246769

(I.R.S. Employer Identification No.)

**535 Boylston Street
Boston, MA**

(Address of principal executive offices)

02116

(Zip Code)

Securities to be registered pursuant to Section 12(b) of the Act:

Title of each class
to be so registered

Common Stock, par value \$0.001 per share

Name of each exchange on which
each class is to be registered

The Nasdaq Stock Market LLC

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A. (c) or (e), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A. (d) or (e), check the following box.

If this form relates to the registration of a class of securities concurrently with a Regulation A offering, check the following box.

Securities Act registration statement or Regulation A offering statement file number to which this form relates: 333-233662

Securities to be registered pursuant to Section 12(g) of the Act: None

INFORMATION REQUIRED IN REGISTRATION STATEMENT

Item 1. Description of Registrant's Securities to be Registered

For a description of the securities of Aprea Therapeutics, Inc. (the "Registrant") being registered hereunder, reference is made to the information set forth under the heading "Description of Capital Stock" contained in the Registrant's Registration Statement on Form S-1 (File No. 333-233662), as initially filed with the Securities and Exchange Commission (the "Commission") on September 6, 2019, as amended (the "Registration Statement"), and in the prospectus included in the Registration Statement to be filed separately by the Registrant with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, which prospectus shall be deemed to be incorporated by reference herein.

Item 2. Exhibits

Under the "Instructions as to Exhibits" section of Form 8-A, no exhibits are required to be filed because no other securities of the Registrant are to be registered on The Nasdaq Stock Market LLC and the securities to be registered hereby are not being registered pursuant to Section 12(g) of the Securities Exchange Act of 1934, as amended.

SIGNATURE

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

Date: September 30, 2019

APREA THERAPEUTICS, INC.

By: /s/ Christian S. Schade

Name: Christian S. Schade

Title: President and Chief Executive Officer
