

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 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**

CRISPR THERAPEUTICS AG

(Exact name of registrant as specified in its charter)

Switzerland
(State of incorporation or organization)

Not Applicable
(I.R.S. Employer Identification No.)

CRISPR Therapeutics AG
Aeschenvorstadt 36
4051 Basel
Switzerland
(Address, including Zip Code, and Telephone Number, including Area Code, of Registrant's Principal Executive Offices)

CT Corporation System
111 Eighth Avenue
New York, NY 10011
(212) 894-8800
(Name, address, including zip code, and telephone number, including area code, of agent for service)

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

Title of each class to be so registered	Name of exchange on which each class is to be registered
Common Shares, CHF 0.03 nominal value per share	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), 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), check the following box.

Securities Act registration statement file number to which the form relates: 333-213577

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

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

A description of the common shares, CHF 0.03 nominal value per share, of CRISPR Therapeutics AG, a Swiss stock corporation (the “Registrant”), to be registered hereunder is contained in the section entitled “Description of Share Capital and Articles of Association” in the prospectus included in the Registrant’s Registration Statement on Form S-1 (File No. 333-213577), initially filed with the Securities and Exchange Commission (the “Commission”) on September 9, 2016, as amended from time to time (the “Registration Statement”), and is incorporated herein by reference. Any form of prospectus subsequently filed by the Registrant with the Commission pursuant to Rule 424(b) under the Securities Act of 1933, as amended, that constitutes part of the Registration Statement shall be deemed to be incorporated herein by reference.

Item 2. Exhibits.

Under the “Instructions as to Exhibits” with respect to Form 8-A, no exhibits are required to be filed with this registration statement because no other securities of the Registrant are 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.

CRISPR THERAPEUTICS AG

Date: October 18, 2016

By: /s/ Marc A. Becker

Marc A. Becker

Chief Financial Officer