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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 8-A**

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

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**Compass Therapeutics, Inc.**  
(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of incorporation or organization)

**82-4876496**  
(I.R.S. Employer Identification No.)

**245 First Street  
3rd Floor  
Cambridge, Massachusetts**  
(Address of principal executive offices)

**02142**  
(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 \$0.0001 per share**

**Name of each exchange on which  
each class is to be registered**  
**The Nasdaq Stock Market LLC**

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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 file or Regulation A offering statement number to which this form relates (if applicable):**  
**333-249536**

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

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## INFORMATION REQUIRED IN REGISTRATION STATEMENT

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

For a description of the common stock, par value \$0.0001 per share (the "Common Stock"), of Compass Therapeutics, Inc. (the "Registrant") to be registered hereunder, reference is made to the information set forth under the heading "Description of Capital Stock" in the Registrant's prospectus that constitutes a part of the Registrant's Registration Statement on Form S-1, as amended (File No. 333-249536) (the "Registration Statement"), filed with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Securities Act"), which information is hereby incorporated by reference. The description of the Common Stock included in any form of prospectus subsequently filed by the Registrant with the Commission pursuant to Rule 424(b) under the Securities Act shall be deemed to be incorporated by reference herein.

### Item 2. Exhibits.

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

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**SIGNATURE**

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

**Compass Therapeutics, Inc.**

Date: November 10, 2020

By: /s/ Thomas J. Schuetz

Thomas J. Schuetz  
Chief Executive Officer