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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 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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**ELIEM THERAPEUTICS, INC.**

(Exact Name of Registrant as Specified in its Charter)

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**Delaware**  
(State of Incorporation or Organization)

**83-2273741**  
(I.R.S. Employer Identification No.)

**23515 NE Novelty Hill Road, Suite B221 #125**  
**Redmond, WA**  
(Address of principal executive offices)

**98053**  
(Zip code)

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

Title of each class  
to be so registered  
**Common Stock, \$0.0001 par value per share**

Name of 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 or Regulation A offering statement file number to which this form relates: 333-257980

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

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

Eliem Therapeutics, Inc. (the “**Registrant**”) hereby incorporates by reference the description of its common stock, par value \$0.0001 per share, to be registered hereunder contained under the heading “Description of Capital Stock” in the Registrant’s Registration Statement on Form S-1 (File No. 333-257980), as originally filed with the Securities and Exchange Commission (the “**Commission**”) on July 16, 2021, as subsequently 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.**

Pursuant to the Instructions as to Exhibits with respect to Form 8-A, no exhibits are required to be filed as part of this registration statement 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.

**SIGNATURE**

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

Date: August 3, 2021

**ELIEM THERAPEUTICS, INC.**

By: /s/ Robert Azelby  
Robert Azelby  
Chief Executive Officer