

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

**FORM S-8  
REGISTRATION STATEMENT**  
*Under  
The Securities Act of 1933*

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

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

**47-3923475**  
(I.R.S. Employer  
Identification Number)

**399 Binney Street, 2nd Floor  
Cambridge, MA 02139  
(617) 370-8837**  
(Address of Principal Executive Offices)

**Relay Therapeutics, Inc. 2020 Stock Option and Incentive Plan  
Relay Therapeutics, Inc. 2020 Employee Stock Purchase Plan**  
(Full Title of the Plans)

**Sanjiv K. Patel  
President and Chief Executive Officer  
Relay Therapeutics, Inc.  
399 Binney Street, 2nd Floor  
Cambridge, MA 02139  
(617) 370-8837**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

*Copies to:*  
**William Collins, Esq.  
Gabriela Morales-Rivera, Esq.  
Goodwin Procter LLP  
100 Northern Avenue  
Boston, Massachusetts 02210  
(617) 570-1000**

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company  Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

---

**PART I**

**INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS**

This Registration Statement on Form S-8 is being filed for the purpose of registering (i) an additional 5,410,515 shares of common stock, par value \$0.001 per share (“Common Stock”) of Relay Therapeutics, Inc. (the “Registrant”) to be issued under the Registrant’s 2020 Stock Option and Incentive Plan, as amended (the “2020 Plan”) and (ii) an additional 1,082,103 shares of Common Stock of the Registrant to be issued under the Registrant’s 2020 Employee Stock Purchase Plan (the “2020 ESPP”), for which a Registration Statement on Form S-8 (File No. 333-239912) relating to the same employee benefit plans is effective.

These additional shares are of the same class as other securities relating to the 2020 Plan and 2020 ESPP for which the Registrant’s Registration Statement on Form S-8 (File No. 333-239912) filed with the Commission on July 17, 2020 is effective.

Pursuant to General Instruction E to Form S-8, the contents of the Registration Statement on Form S-8 (File No. 333-239912) filed with the Commission on July 17, 2020 are incorporated by reference except to the extent supplemented, amended or superseded by the information set forth herein. Only those items of Form S-8 containing new information not contained in the earlier registration statement is presented herein.

---

**Part II**  
**INFORMATION REQUIRED IN THE REGISTRATION STATEMENT**

**Item 8. Exhibits.**

The exhibits to this Registration Statement are listed in the Exhibit Index attached hereto and incorporated by reference herein.

**EXHIBIT INDEX**

Exhibit No.	Description
4.1	<a href="#">Fourth Amended and Restated Certificate of Incorporation of Relay Therapeutics, Inc. (incorporated by reference to Exhibit 3.1 to the Registrant's Form 8-K (File No. 001-39385) filed on July 21, 2020).</a>
4.2	<a href="#">Amended and Restated Bylaws of Relay Therapeutics, Inc. (incorporated by reference to Exhibit 3.2 to the Registrant's Form 8-K (File No. 001-39385) filed on July 21, 2020).</a>
4.3	<a href="#">Specimen stock certificate evidencing the shares of common stock (incorporated by reference to Exhibit 4.1 to the Registrant's Registration Statement on Form S-1/A (File No. 333-239412) filed on July 9, 2020).</a>
4.4	<a href="#">Description of Securities (incorporated by reference to Exhibit 4.3 to the Registrant's Annual Report on Form 10-K (File No. 001-39385) filed on March 25, 2021).</a>
5.1*	<a href="#">Opinion of Goodwin Procter LLP</a>
23.1*	<a href="#">Consent of Ernst &amp; Young LLP, Independent Registered Public Accounting Firm</a>
23.2*	<a href="#">Consent of Goodwin Procter LLP (included in Exhibit 5.1)</a>
24.1*	<a href="#">Power of Attorney (included on signature page)</a>
99.1	<a href="#">2020 Stock Option and Incentive Plan (incorporated by reference to Exhibit 10.2 of the Registrant's Registration Statement on Form S-1/A (File No. 333-239412) filed on July 9, 2020).</a>
99.2	<a href="#">Relay Therapeutics, Inc. 2020 Employee Stock Purchase Plan (incorporated by reference to Exhibit 10.3 of the Registrant's Registration Statement on Form S-1/A (File No. 333-239412) filed on July 9, 2020).</a>
107*	<a href="#">Filing Fee Table</a>

\* Filed herewith.

---





Goodwin Procter LLP  
100 Northern Avenue  
Boston, MA 02210

goodwinlaw.com  
+1 617 570 1000

February 24, 2022

**Relay Therapeutics, Inc.**  
399 Binney Street, 2<sup>nd</sup> Floor  
Cambridge, MA 02139

**Re: Securities Being Registered under Registration Statement on Form S-8**

We have acted as counsel to you in connection with your filing of a Registration Statement on Form S-8 (the "Registration Statement") pursuant to the Securities Act of 1933, as amended (the "Securities Act"), on or about the date hereof relating to an aggregate of 6,492,618 shares (the "Shares") of Common Stock, \$0.001 par value per share ("Common Stock"), of Relay Therapeutics, Inc., a Delaware corporation (the "Company"), that may be issued pursuant to the Company's 2020 Stock Option and Incentive Plan and 2020 Employee Stock Purchase Plan (collectively, the "Plans").

We have reviewed such documents and made such examination of law as we have deemed appropriate to give the opinions set forth below. We have relied, without independent verification, on certificates of public officials and, as to matters of fact material to the opinion set forth below, on certificates of officers of the Company.

The opinion set forth below is limited to the Delaware General Corporation Law.

For purposes of the opinion set forth below, we have assumed that no event occurs that causes the number of authorized shares of Common Stock available for issuance by the Company to be less than the number of then unissued Shares.

Based on the foregoing, we are of the opinion that the Shares have been duly authorized and, upon issuance and delivery against payment therefor in accordance with the terms of the Plans, will be validly issued, fully paid and nonassessable.

We hereby consent to the inclusion of this opinion as Exhibit 5.1 to the Registration Statement. In giving our consent, we do not admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations thereunder.

Very truly yours,

/s/ GOODWIN PROCTER LLP

GOODWIN PROCTER LLP

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the 2020 Stock Option and Incentive Plan and 2020 Employee Stock Purchase Plan of Relay Therapeutics, Inc. of our report dated February 24, 2022, with respect to the consolidated financial statements of Relay Therapeutics, Inc. and the effectiveness of internal control over financial reporting of Relay Therapeutics, Inc. included in its Annual Report (Form 10-K) for the year ended December 31, 2021, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

Boston, Massachusetts

February 24, 2022

**Calculation of Filing Fee Table**

**Form S-8**  
(Form Type)

**Relay Therapeutics, Inc.**  
(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered Securities

Security Type	Security Class Title	Fee Calculation Rule	Amount to be Registered(1)	Proposed Maximum Offering Price per Share	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee
Equity	Common Stock, \$0.001 par value per share	Other (2)	5,410,515 shares(3)	\$20.92 (2)	\$113,187,973.80 (2)	\$0.0000927	\$10,492.53
Equity	Common Stock, \$0.001 par value per share	Other (4)	1,082,103 shares(5)	\$17.78 (4)	\$19,241,955.55 (4)	\$0.0000927	\$1,783.73
<b>Total Offering Amounts</b>					\$132,429,929.35		—
<b>Total Fees Previously Paid</b>							—
<b>Total Fee Offsets</b>							—
<b>Net Fee Due</b>							\$12,276.26

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the “Securities Act”), this registration statement shall be deemed to cover any additional shares of common stock, \$0.001 par value per share (“Common Stock”) which become issuable under the Registrant’s 2020 Stock Option and Incentive Plan (the “2020 Plan”) and the Registrant’s 2020 Employee Stock Purchase Plan (the “2020 ESPP”), by reason of any stock dividend, stock split, recapitalization or any other similar transaction effected without the receipt of consideration which results in an increase in the number of the Registrant’s outstanding shares of Common Stock.
- (2) Estimated solely for the purpose of calculating the registration fee pursuant to Rules 457 (c) and 457(h) of the Securities Act, and based upon the average of the high and low prices reported for the Common Stock on the Nasdaq Global Market on February 23, 2022.
- (3) Represents shares of Common Stock that were added to the shares authorized for issuance under the 2020 Plan, effective as of January 1, 2022 pursuant to an “evergreen” provision contained in the 2020 Plan. Pursuant to such provision, an additional number of shares will automatically be added to the shares authorized for issuance under the 2020 Plan on January 1 of each year. Shares available for issuance under the 2020 Plan were previously registered on registration statements on Form S-8 filed with the Securities and Exchange Commission on July 17, 2020 (File No. 333-239912) and March 25, 2021 (333-254704).
- (4) The price of \$17.78 per share, which is 85% of the average of the high and low sale prices of the Common Stock of the Registrant as quoted on the Nasdaq Global Market on February 23, 2022, is set forth solely for purposes of calculating the registration fee pursuant to Rules 457(c) and (h) of the Securities Act of 1933, as amended, and has been used as these shares are without a fixed price. Pursuant to the 2020 ESPP, the purchase price of the shares of Common Stock reserved for issuance thereunder will be 85% of the fair market value of a share of Common Stock on the first trading day of the offering period or on the exercise date, whichever is less.

- (5) Represents shares of Common Stock that were added to the shares authorized for issuance under the 2020 ESPP, effective as of January 1, 2022 pursuant to an “evergreen” provision contained in the 2020 ESPP. Pursuant to such provision, an additional number of shares will automatically be added to the shares authorized for issuance under the 2020 ESPP on January 1 of each year. Shares available for issuance under the 2020 ESPP were previously registered on registration statements on Form S-8 filed with the Securities and Exchange Commission on July 17, 2020 (File No. 333-239912) and March 25, 2021 (333-254704).