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

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**FORM 8-K**

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**CURRENT REPORT  
Pursuant to Section 13 or 15(d)  
of the Securities Exchange Act of 1934**

**Date of Report (Date of earliest event reported): May 22, 2018**

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**GEMPHIRE THERAPEUTICS INC.**

(Exact name of registrant as specified in its charter)

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

**001-37809**  
(Commission  
File No.)

**47-2389984**  
(IRS Employer  
Identification No.)

**17199 N. Laurel Park Drive, Suite 401**  
**Livonia, Michigan 48152**  
(Address of principal executive offices) (Zip Code)

**Registrant's telephone number, including area code: (734) 245-1700**

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

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 13(a) of the Exchange Act.

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**Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.**

At the annual meeting (the “Annual Meeting”) of stockholders of Gemphire Therapeutics Inc. (the “Company”) on May 22, 2018, the Company’s stockholders approved an amendment to the Gemphire Therapeutics Inc. Amended and Restated 2015 Equity Incentive Plan (the “2015 Plan”), which became effective on such date. The amendment increased the number of shares of common stock reserved for issuance under the 2015 Plan by 300,000 shares without any change to the “evergreen” provision of the 2015 Plan, pursuant to which the number of shares of Company common stock reserved for issuance will automatically increase on January 1, 2019 (and on January 1 of each year thereafter continuing through and including January 1, 2026) to an amount equal to 20% of the fully diluted shares as of December 31 of the preceding calendar year. The Company proposed the amendment to the 2015 Plan to make such shares available for issuance during 2018, earlier than they otherwise would be available for issuance under the 2015 Plan pursuant to such “evergreen” provision.

As disclosed in the Company’s Current Report on Form 8-K filed with the Securities and Exchange Commission (“SEC”) on May 3, 2018, Dr. Steven Gullans, the Company’s President and Chief Executive Officer, was granted, on May 1, 2018, the following two options that were subject to, and could not be exercised until, stockholder approval of the amendment to the 2015 Plan: (i) an option to purchase 50,000 shares of common stock vesting in a series of 48 equal monthly installments, subject to his continued employment; and (ii) an option to purchase 100,000 shares of common stock, 50,000 of which will vest on the date that the first patient in the first Phase 3 clinical trial of gemcabene in a non-orphan indication receives the first dose of gemcabene and the remaining 50,000 of which will vest when the thirty (30) consecutive day volume weighted average closing price of the Company’s common stock achieves a certain target, in each case, if such event occurs on or before December 31, 2019, subject to his continued employment. Following the Annual Meeting, such options are no longer conditioned on such stockholder approval.

A description of the terms of the 2015 Plan is included in the Company’s definitive proxy statement for the Annual Meeting filed with the SEC on April 17, 2018, as supplemented by the Company’s proxy statement supplement filed with the SEC on May 3, 2018. The description of the terms of the 2015 Plan, as amended, is qualified in its entirety by reference to the actual terms of the 2015 Plan, the amendment and the form of option award agreement, which are included or incorporated by reference as Exhibits 10.1, 10.2 and 10.3, respectively.

**Item 5.07 Submission of Matters to a Vote of Security Holders**

At the Annual Meeting on May 22, 2018, stockholders elected two Class II directors to the Company’s Board of Directors, each to serve three-year terms until the 2021 annual meeting of stockholders, ratified the appointment of Ernst & Young LLP as the Company’s independent registered public accounting firm for the fiscal year ending December 31, 2018, and approved an amendment to the 2015 Plan to increase the number of shares authorized for issuance thereunder by 300,000 shares.

For Proposal 1, the two nominees receiving the most votes cast were elected as directors. Proposals 2 and 3 required the affirmative vote of the holders of a majority of shares entitled to vote and present at the meeting. The Proposals are described in detail in the Company’s definitive proxy statement filed with the SEC on April 17, 2018, as supplemented by the Company’s proxy statement supplement filed with the SEC on May 3, 2018.

The results of the voting are shown below:

**Proposal 1—Election of Directors**

Class I Nominees	Votes For	Votes Withheld	Broker Non-Votes
Dr. Steven Gullans	5,878,622	1,101,739	4,978,344
P. Kent Hawryluk	5,119,848	1,860,513	4,978,344

**Proposal 2—Ratification of Appointment of Independent Registered Public Accounting Firm**

Votes For	Votes Against	Votes Abstain
11,876,135	80,820	1,750

**Proposal 3—Approval of an amendment to the Gemphire Therapeutics Inc. Amended and Restated 2015 Equity Incentive Plan to increase the number of shares authorized for issuance thereunder by 300,000 shares.**

Votes For	Votes Against	Votes Abstain	Broker Non-Votes
3,552,870	3,267,883	159,608	4,978,344

**Item 9.01 Financial Statements and Exhibits.**

Exhibit No.	Description
10.1	Gemphire Therapeutics Inc. Amended and Restated 2015 Equity Incentive Plan (incorporated by reference to Exhibit 10.3 to the Registrant's Amendment No. 1 to the Registration Statement on Form S-1, File No. 333-210815, filed on June 13, 2016).
10.2	Amendment to the Gemphire Therapeutics Inc. Amended and Restated 2015 Equity Incentive Plan.

- 10.3 Form of Stock Option Grant Notice, Option Agreement and Notice of Exercise under the Gemphire Therapeutics Inc. Inducement Plan (incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K, File No. 001-37809, filed on October 3, 2016).

**SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**GEMPHIRE THERAPEUTICS INC.**

Dated: May 24, 2018

By: /s/ Jeffrey S. Mathiesen

Jeffrey S. Mathiesen

Chief Financial Officer

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**AMENDMENT  
TO THE  
GEMPHIRE THERAPEUTICS INC.  
AMENDED AND RESTATED 2015 EQUITY INCENTIVE PLAN**

**ADOPTED BY THE BOARD OF DIRECTORS: April 9, 2018  
APPROVED BY THE STOCKHOLDERS: May 22, 2018**

The Gemphire Therapeutics Inc. Amended and Restated 2015 Equity Incentive Plan (the “Plan”) is hereby amended in the following respects, effective from and after the date approved by the stockholders of Gemphire Therapeutics Inc. as set forth above, in accordance with Sections 2(b)(vi) and (vii) of the Plan. Following such effective date, any reference to the “Plan” shall mean the Plan, as amended hereby.

Section 3(a)(i) of the Plan is deleted in its entirety and replaced with the following sentence:

“Subject to Section 9(a) relating to Capitalization Adjustments, and Section 3(a) (ii) regarding the annual increase, the aggregate number of shares of Common Stock that may be issued pursuant to Stock Awards will not exceed the sum of (A) 3,115,077 new shares, plus (B) the number of shares that are Returning Shares, as such shares become available from time to time (the “*Share Reserve*”).

Except as specifically set forth herein, the terms of the Plan shall be and remain unchanged, and the Plan as amended shall remain in full force and effect.

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