

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden	
hours per response:	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Bisgaier Charles PhD</u> _____ (Last) (First) (Middle) 43334 SEVEN MILE ROAD SUITE 1000 _____ (Street) NORTHVILLE MI 48167 _____ (City) (State) (Zip)			2. Issuer Name and Ticker or Trading Symbol <u>Gemphire Therapeutics Inc. [GEMP]</u> _____ 3. Date of Earliest Transaction (Month/Day/Year) 08/10/2016 _____ 4. If Amendment, Date of Original Filed (Month/Day/Year)			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Chair & Chief Scientific Off.		
			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	08/10/2016		C		59,561	A	(1)	59,561	I	Held by The Charles L. Bisgaier Trust ⁽²⁾
Common Stock	08/10/2016		J ⁽³⁾		6,515	A	\$6.7059	66,076	I	Held by The Charles L. Bisgaier Trust ⁽²⁾
Common Stock	08/10/2016		C		16,144	A	\$6.7059	82,220	I	Held by The Charles L. Bisgaier Trust ⁽²⁾
Common Stock	08/10/2016		C		19,228	A	\$6.7059	19,228	I	Held by Bisgaier Family, LLC
Common Stock	08/10/2016		P		51,750	A	\$10	1,244,440	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Series A Convertible Preferred Stock	(1)	08/10/2016		C		59,561		(1)	(1)	Common Stock	59,561	\$0	0	I	Held by The Charles L. Bisgaier Trust ⁽²⁾
8% Convertible Subordinated Promissory Notes	\$6.7059	08/10/2016		C		\$100,000 ⁽⁴⁾		(4)	(4)	Common Stock	16,144	\$0	0	I	Held by The Charles L. Bisgaier Trust ⁽²⁾
8% Convertible Subordinated Promissory Notes	\$6.7059	08/10/2016		C		\$125,000 ⁽⁵⁾		(5)	(5)	Common Stock	19,228	\$0	0	I	Held by Bisgaier Family, LLC

Explanation of Responses:

1. The Series A Convertible Preferred Stock converted into shares of common stock, par value \$0.001 per share (the "Common Stock"), of Gemphire Therapeutics Inc. (the "Company") on a one-for-one basis

immediately prior to the closing of the Company's initial public offering and had no expiration date.

2. These shares are indirectly owned by the reporting person as trustee of The Charles L. Bisgaier Trust.

3. Represents shares of Common Stock issued for payment of accrued dividends on the Series A Convertible Preferred Stock.

4. The notes were issued in the original principal amount of \$100,000. The outstanding principal and \$8,263 of accrued interest on the notes automatically converted into shares of Common Stock immediately prior to the closing of the Company's initial public offering.

5. The notes were issued in the original principal amount of \$125,000. The outstanding principal and \$3,945 of accrued interest on the notes automatically converted into shares of Common Stock immediately prior to the closing of the Company's initial public offering.

/s/ Stephanie Swan, by Power of
Attorney 08/12/2016

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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