FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

3235-0287
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e: 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

(Last) 17199 N	Name and Address of Reporting Person* IATHIESEN JEFFREY S ast) (First) (Middle) 199 N. LAUREL PARK DRIVE JITE 401							Issuer Name and Ticker or Trading Symbol Gemphire Therapeutics Inc. [GEMP] Date of Earliest Transaction (Month/Day/Year) 08/10/2017										Relationship of Reporting Person(s) to Issuer leck all applicable) Director 10% Owner X Officer (give title Other (specify below) Chief Financial Officer				
(Street) LIVONI. (City)	A M		48152 (Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year) 08/11/2017 6. Individual or Joint/Group Filing (Check Application) Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person												n				
		Tab	le I - Nor	n-Deriv	ative	Se	curit	ies Ac	qu	uired, I	Disp	osed c	of, or	Ben	eficial	ly Owne	t					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,			′ I	3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) 5)				Benefic	es ally Following	Form (D) o	n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
											v	Amount	mount (A) or (D)		Price	Transac	Transaction(s) (Instr. 3 and 4)			,		
Common	Stock			08/10)/2017	7				M		3,000)	A	\$3.5	9 10	,927		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. Deem Executior if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		n of		Ex	Date Exe piration I lonth/Day	Date		Amount of			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)		
					Code	v	(A)	(D)	Da Ex	ate cercisable		xpiration ate	Title	1	Amount or Number of Shares					t (Instr. 4)		
Employee Stock Option (right to buy)	\$3.59	08/10/2017			М			3,000	09	9/25/2015	09	9/24/2025	Comn		3,000	\$0	45,093 ⁰	(1)	D			

Explanation of Responses:

1. Amended to correct an error related to the number of shares subject to the reported option following the exercise.

/s/ Gabrielle Sims, by Power of 08/15/2017 <u>Attorney</u>

** 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.