SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

(Amendment No. 1)*
Gemphire Therapeutics Inc.
(Name of Issuer)
Common Stock, \$0.001 par value
(Title of Class of Securities)
36870A108
(CUSIP Number)
December 31, 2017
(Date of Event Which Requires Filing of This Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
□ Rule 13d-1(b) ☑ Rule 13d-1(c)
☐ Rule 13d-1(d)
(Page 1 of 11 Pages)

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

^{*}The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

			1
1	NAME OF REPORTING PERSON Adage Capital Partners, L.P.		
	Adage Capi	iai rainieis, L.F.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)		
_			(b) 🗆
2	SEC USE ONLY		
3	SEC USE ONL I		
4	CITIZENSHIP OR PLACE OF ORGANIZATION		
7	Delaware		
	5	SOLE VOTING POWER	
	3	0	
	6	SHARED VOTING POWER	
NUMBER OF	U	305,276 shares of Common Stock	
SHARES BENEFICIALLY		150,000 shares of Common Stock issuable upon exercise of Warrants	
OWNED BY EACH	7	SOLE DISPOSITIVE POWER	
REPORTING	,	0	
PERSON WITH:	8	SHARED DISPOSITIVE POWER	
	O	305,276 shares of Common Stock	
		150,000 shares of Common Stock issuable upon exercise of Warrants	
9		DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	305,276 sha	res of Common Stock	
	150,000 sha	res of Common Stock issuable upon exercise of Warrants	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
	DEDGENIT OF CLASS DEDDEGENITED DV AMOUNT DUDOW (0)		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 4.22%		
12	TYPE OF REPORTING PERSON		
12	PN		

	1			
1	NAME OF REPORTING PERSON Adage Capital Partners GP, L.L.C.			
	Adage Capi	tal Partners GP, L.L.C.		
2 CHECK THE APPROPRIA		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🔲	
_			(b) \square	
	and han only		(b) L	
3	SEC USE ONLY	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
4	Delaware			
		SOLE VOTING POWER		
	5	0		
	6	SHARED VOTING POWER		
NUMBER OF SHARES		305,276 shares of Common Stock		
BENEFICIALLY		150,000 shares of Common Stock issuable upon exercise of Warrants		
OWNED BY	7	SOLE DISPOSITIVE POWER		
EACH REPORTING	/	0		
PERSON WITH:		SHARED DISPOSITIVE POWER		
	8	305,276 shares of Common Stock		
		150,000 shares of Common Stock issuable upon exercise of Warrants		
		130,000 shares of Common Stock Issuable upon exercise of warrants		
9		OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	305,276 sha	ares of Common Stock		
	150,000 sha	ares of Common Stock issuable upon exercise of Warrants		
10	CHECK BOX IF THE	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10			Ш	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
11	4.22%			
12	TYPE OF REPORT	ING PERSON		
12	00			

1	NAME OF REPORTING PERSON Adage Capital Advisors, L.L.C.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0	
	6	SHARED VOTING POWER 305,276 shares of Common Stock 150,000 shares of Common Stock issuable upon exercise of Warrants	
	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER 305,276 shares of Common Stock 150,000 shares of Common Stock issuable upon exercise of Warrants	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 305,276 shares of Common Stock		
10	150,000 shares of Common Stock issuable upon exercise of Warrants CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 4.22%		
12	TYPE OF REPORTING PERSON OO		

1	NAME OF REPORTING PERSON Robert Atchinson		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0	
	6	SHARED VOTING POWER 305,276 shares of Common Stock 150,000 shares of Common Stock issuable upon exercise of Warrants	
	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER 305,276 shares of Common Stock 150,000 shares of Common Stock issuable upon exercise of Warrants	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 305,276 shares of Common Stock		
	150,000 sha	res of Common Stock issuable upon exercise of Warrants	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 4.22%		
12	TYPE OF REPORTING PERSON IN		

1	NAME OF REPORTING PERSON Phillip Gross		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b)		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0	
	6	SHARED VOTING POWER 305,276 shares of Common Stock 150,000 shares of Common Stock issuable upon exercise of Warrants	
	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER 305,276 shares of Common Stock 150,000 shares of Common Stock issuable upon exercise of Warrants	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 305,276 shares of Common Stock		
	150,000 sha	ares of Common Stock issuable upon exercise of Warrants	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 4.22%		
12	TYPE OF REPORTING PERSON IN		

Item 1(a). NAME OF ISSUER

The name of the issuer is Gemphire Therapeutics Inc. (the "Company").

Item 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

The Company's principal executive offices are located at 17199 N. Laurel Park Drive, Suite 401, Livonia, Michigan 48152.

Item 2(a). NAME OF PERSON FILING

This statement is filed by:

- (i) Adage Capital Partners, L.P., a Delaware limited partnership ("ACP") with respect to the shares of Common Stock directly owned by it;
- (ii) Adage Capital Partners GP, L.L.C., a limited liability company organized under the laws of the State of Delaware ("ACPGP"), as general partner of ACP with respect to the shares of Common Stock directly owned by ACP;
- (iii) Adage Capital Advisors, L.L.C., a limited liability company organized under the laws of the State of Delaware ("ACA"), as managing member of ACPGP, general partner of ACP, with respect to the shares of Common Stock directly owned by ACP;
- (iv) Robert Atchinson ("Mr. Atchinson"), as managing member of ACA, managing member of ACPGP, general partner of ACP with respect to the shares of Common Stock directly owned by ACP; and
- (v) Phillip Gross ("Mr. Gross"), as managing member of ACA, managing member of ACPGP, general partner of ACP with respect to the shares of Common Stock directly owned by ACP.

The foregoing persons are hereinafter sometimes collectively referred to as the "Reporting Persons." Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party.

The filing of this statement should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of the securities reported herein.

Item 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE

The address of the business office of each of the Reporting Persons is 200 Clarendon Street, 52nd floor, Boston, Massachusetts 02116.

Item 2(c). CITIZENSHIP

ACP is a limited partnership organized under the laws of the State of Delaware. ACPGP and ACA are limited liability companies organized under the laws of the State of Delaware. Messrs. Gross and Atchinson are citizens of the United States.

Item 2(d). TITLE OF CLASS OF SECURITIES

Common Stock, \$0.001 par value (the "Common Stock").

Item 2(e). CUSIP NUMBER

36870A108

Item 3.	THE PER	RSON F	MENT IS FILED PURSUANT TO Rules 13d-1(b), OR 13d-2(b) OR (c), CHECK WHETHER ILING IS A:
	(a)		Broker or dealer registered under Section 15 of the Act;
	(b)		Bank as defined in Section 3(a)(6) of the Act;
	(c)		Insurance company as defined in Section 3(a)(19) of the Act;
	(d)		Investment company registered under Section 8 of the Investment Company Act of 1940;
	(e)		An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
	(f)		An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
	(g)		A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
	(h)		A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
	(i)		A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
	(j)		A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J);
	(k)		Group, in accordance with Rule 13d-1(b)(1)(ii)(K).
		_	on-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please of institution: Not applicable.

Item 4. OWNERSHIP

- A. Adage Capital Partners, L.P., Adage Capital Partners GP, L.L.C. and Adage Capital Advisors, L.L.C.
 - (a) Amount beneficially owned: 305,276 shares of Common Stock and 150,000 shares of Common Stock issuable upon exercise of Warrants.
 - (b) Percent of class: 4.22%. The percentage set forth in this Schedule 13G/A is calculated based on a total of 10,633,042 shares of Common Stock reported to be issued and outstanding as of November 7, 2017, as reported in the Company's Quarterly Report on Form 10-Q for the quarterly period ended September 30, 2017, filed with the Securities and Exchange Commission on November 13, 2017.
 - (c) (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 305,276 shares of Common Stock and 150,000 shares of Common Stock issuable upon exercise of Warrants.
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition of: 305,276 shares of Common Stock and 150,000 shares of Common Stock issuable upon exercise of Warrants.

ACP has the power to dispose of and the power to vote the shares of Common Stock beneficially owned by it, which power may be exercised by its general partner, ACPGP. ACA, as managing member of ACPGP, directs ACPGP's operations. Neither ACPGP nor ACA directly own any shares of Common Stock. By reason of the provisions of Rule 13d-3 of the Securities Exchange Act of 1934 (the "Act"), ACPGP and ACA may be deemed to beneficially own the shares owned by ACP.

- B. Robert Atchinson and Phillip Gross
 - (a) Amount beneficially owned: 305,276 shares of Common Stock and 150,000 shares of Common Stock issuable upon exercise of Warrants.
 - (b) Percent of class: 4.22%
 - (c) (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 305,276 shares of Common Stock and 150,000 shares of Common Stock issuable upon exercise of Warrants.
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 305,276 shares of Common Stock and 150,000 shares of Common Stock issuable upon exercise of Warrants.

Messrs. Atchinson and Gross, as managing members of ACA, have shared power to vote the shares of Common Stock beneficially owned by ACP. Neither Mr. Atchinson nor Mr. Gross directly own any shares of Common Stock. By reason of the provisions of Rule 13d-3 of the Act, each may be deemed to beneficially own the shares beneficially owned by ACP.

Item 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

If this statement is being filed to report the fact that as of the date hereof the Reporting Persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following:

- Item 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON Not applicable.
- Item 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY OR CONTROL PERSON Not applicable.
- Item 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP Not applicable.
- Item 9. NOTICE OF DISSOLUTION OF GROUP Not applicable.
- Item 10. CERTIFICATION

Each of the Reporting Persons hereby makes the following certification:

By signing below each Reporting Person certifies that, to the best of his or its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURES

After reasonable inquiry and to the best of his or its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

DATE: February 13, 2018

ADAGE CAPITAL PARTNERS, L.P. By: Adage Capital Partners GP, L.L.C., its general partner

By: Adage Capital Advisors, L.L.C., its managing member

/s/ Robert Atchinson Name: Robert Atchinson Title: Managing Member

ADAGE CAPITAL PARTNERS GP, L.L.C. By: Adage Capital Advisors, L.L.C., its managing member

/s/ Robert Atchinson Name: Robert Atchinson Title: Managing Member

ADAGE CAPITAL ADVISORS, L.L.C.

/s/ Robert Atchinson
Name: Robert Atchinson
Title: Managing Member

ROBERT ATCHINSON

/s/ Robert Atchinson ROBERT ATCHINSON, individually

PHILLIP GROSS

/s/ Phillip Gross
PHILLIP GROSS, individually