SCHEDULE 13G

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

Under the Securities Exchange Act of 1934 (Amendment No. 3)*

	Arrowhead Pharmaceuticals, Inc.
	(Name of Issuer)
	Common Stock, par value \$0.001 per share
	(Title of Class of Securities)
	04280A100
	(CUSIP Number)
	December 31, 2016
_	(Date of Event which Requires Filing of this Statement)
Check the appropriate box to	designate the rule pursuant to which this Schedule is filed:
x Rule 13d-1(b)	
☐ Rule 13d-1(c)	
☐ Rule 13d-1(d)	
	page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of indment containing information which would alter disclosures provided in a prior cover page.
	he remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Act") or otherwise subject to the liabilities of that section of the Act, but shall be subject to all other provision

	 			
1	NAMES OF REPORTING PERSONS			
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	Baker Bros. Advisors LP			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)			(a) 🗆
_				(b) □
3	SEC USE ONLY			
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4	CITIZENSHIP OR	PLACE	OF ORGANIZATION	
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	Delaware			
		5	SOLE VOTING POWER	
NUMBER OF			-0-	
SHARES		6	SHARED VOTING POWER	
BENEFICIALLY				
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9	AGGREGATE AM	OUNT B	ENEFICIALLY OWNED BY EACH REPORTING PERSON	
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10	CHECK BOX IF TI	HE AGG	REGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)	
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11	PERCENT OF CLA	ASS REP	RESENTED BY AMOUNT IN ROW 9	
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	0.0% (1)			
12		ING PE	RSON (See Instructions)	
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	IA, PN			

(1) Based on 74,173,484 shares of common stock outstanding as of December 12, 2016, as reported in the Issuer's Form 10-K filed with the SEC on December 14, 2016.

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1	NAMES OF REPORTING PERSONS			
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	Baker Bros. Advisors			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)			(a) 🗆
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3	SEC USE ONLY			
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4	CITIZENSHIP OR	PLACE	OF ORGANIZATION	
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(1) Based on 74,173,484 shares of common stock outstanding as of December 12, 2016, as reported in the Issuer's Form 10-K filed with the SEC on December 14, 2016.

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1	NAMES OF REPORTING PERSONS			
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	Felix J. Baker			
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	IN, HC			

(1) Based on 74,173,484 shares of common stock outstanding as of December 12, 2016, as reported in the Issuer's Form 10-K filed with the SEC on December 14, 2016.

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1	NAMES OF REPORTING PERSONS			
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	Julian C. Baker			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a)			
_				(b) □
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SHARES		6	SHARED VOTING POWER	
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	WITH	8	SHARED DISPOSITIVE POWER	
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(1) Based on 74,173,484 shares of common stock outstanding as of December 12, 2016, as reported in the Issuer's Form 10-K filed with the SEC on December 14, 2016.

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Amendment No. 3 to Schedule 13G

This Amendment No. 3 to Schedule 13G amends and supplements the previously filed Schedules 13G filed by Baker Bros. Advisors LP (the "Adviser"). Baker Bros. Advisors (GP) LLC (the "Adviser GP"), Julian C. Baker and Felix J. Baker. Except as supplemented herein, such statements, as heretofore amended and supplemented, remain in full force and effect.

Item 1(a) Name of Issuer:

Arrowhead Pharmaceuticals, Inc. (the "Issuer")

Item 1(b) Address of Issuer's Principal Executive Offices:

225 S. Lake Avenue, Suite 1050

Pasadena, California 91101

Item 2(a) Name of Person Filing:

This Schedule 13G is being filed jointly by the Adviser, the Adviser GP, Felix J. Baker and Julian C. Baker (collectively, the "Reporting Persons").

Item 2(b) Address of Principal Business Office or, if None, Residence:

The business address of each of the Reporting Persons is:

c/o Baker Bros. Advisors LP

667 Madison Avenue, 21st Floor

New York, NY 10065

(212) 339-5690

Item 2(c) Citizenship:

The Adviser is a limited partnership organized under the laws of the State of Delaware. The Adviser GP is a limited liability company organized under the laws of the State of Delaware. The citizenship of each of Julian C. Baker and Felix J. Baker is the United States of America.

America

Item 2(d) Title of Class of Securities:

Common Stock, par value \$0.001 per share ("Common Stock")

Item 2(e) CUSIP Number:

04280A100

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Item 3.	If this statement is filed pursuant to §§240.13d-1(b) or (c), check whether the person filing is a:				
	(a) \square Broker or dealer registered under Section 15 of the Exchange Act.				
	(b) \square Bank as defined in section 3(a)(6) of the Exchange Act.				
	(c) \square Insurance company as defined in section 3(a)(19) of the Exchange Act.				
	(d) \square Investment company registered under section 8 of the Investment Company Act of 1940.				
	(e) x An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).				
	(f) \Box An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).				
	(g) x A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).				
	(h) \square 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 of 1940.				
	(j) \square Group, in accordance with Rule 13d-1(b)(1)(ii)(J).				
Item 4.	Ownership.				
	Items 5 through 9 and 11 of each of the cover pages to this Amendment No. 3 are incorporated herein reference. Set forth below is the aggregate number of shares of Common Stock the Issuer directly held by each of Baker Brothers Life Sciences, L.P. ("Life Sciences" 667, L.P. ("667", and together with Life Sciences, the "Funds") and the percentage of the Issuer's outstanding shares of Common Stock such holdings represent. The information set forth below is based upon 74,173,484 shares of Common Stock outstanding as of Decem 12, 2016, as reported on the Issuer's 10-K filed with the SEC on December 14, 2016. Such percentage figures are calculated in accord with Rule 13d-3 under the Securities Exchange Act of 1934, as amended.				
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	Number of Shares		
	of Common Stock		
	we own or have the	Percent of	
	right to acquire	Class	
Name	within 60 days	Outstanding	
667, L.P.	-	0.0%	
Baker Brothers Life Sciences, L.P.	-	0.0%	
Total		0.0%	

Pursuant to the management agreements, as amended, among the Adviser, the Funds and their respective general partners, the Funds' respective general partners relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds, and thus the Adviser has complete and unlimited discretion and authority with respect to the Funds' investments and voting power over investments.

The Adviser GP, Felix J. Baker and Julian C. Baker as principals of the Adviser GP, and the Adviser may be deemed to be beneficial owners of securities of the Issuer directly held by the Funds, and may be deemed to have the power to vote or direct the vote of and the power to dispose or direct the disposition of such securities.

The Reporting Persons disclaim beneficial ownership of the securities held by each of the Funds, and this Amendment No. 3 shall not be deemed an admission that the Reporting Persons are the beneficial owners of such securities for purposes of Section 13(d) or for any other purpose.

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 person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following x.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

The information in Item 4 is incorporated herein by reference.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

The information in Item 4 is incorporated herein by reference.

Item 8. Identification and Classification of Members of the Group.

N/A

Item 9. Notice of Dissolution of Group.

N/A

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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.

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 14, 2017

BAKER BROS. ADVISORS LP

By: Baker Bros. Advisors (GP) LLC, its general partner

By: /s/ Scott L. Lessing

Name: Scott L. Lessing Title: President

BAKER BROS. ADVISORS (GP) LLC

By: /s/ Scott L. Lessing

Name: Scott L. Lessing Title: President

/s/ Julian C. Baker

Julian C. Baker

/s/ Felix J. Baker

Felix J. Baker

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