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

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**SCHEDULE 13G**

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

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**Arrowhead Research Corporation**  
(Name of Issuer)

**Common Stock, \$0.001 par value per share**  
(Title of Class of Securities)

**042797209**  
(CUSIP Number)

**October 8, 2013**  
(Date of Event Which Requires Filing of this Statement)

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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)

\* 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.

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).

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1.	Names of Reporting Persons. <b>QVT Financial LP</b> I.R.S. Identification Nos. of above persons (entities only).  11-3694008	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
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  2,047,781
	7.	Sole Dispositive Power  0
	8.	Shared Dispositive Power  2,047,781
9.	Aggregate Amount Beneficially Owned by Each Reporting Person  2,047,781	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
11.	Percent of Class Represented by Amount in Row (9)  5.64%	
12.	Type of Reporting Person (See Instructions)  PN	

1.	Names of Reporting Persons. <b>QVT Financial GP LLC</b> I.R.S. Identification Nos. of above persons (entities only).  11-3694007	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
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  2,047,781
	7.	Sole Dispositive Power  0
	8.	Shared Dispositive Power  2,047,781
9.	Aggregate Amount Beneficially Owned by Each Reporting Person  2,047,781	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
11.	Percent of Class Represented by Amount in Row (9)  5.64%	
12.	Type of Reporting Person (See Instructions)  OO	

1.	Names of Reporting Persons. <b>QVT Associates GP LLC</b> I.R.S. Identification Nos. of above persons (entities only).  01-0798253	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
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  2,047,781
	7.	Sole Dispositive Power  0
	8.	Shared Dispositive Power  2,047,781
9.	Aggregate Amount Beneficially Owned by Each Reporting Person  2,047,781	
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
11.	Percent of Class Represented by Amount in Row (9)  5.64%	
12.	Type of Reporting Person (See Instructions)  OO	

- Item 1(a).** Name of Issuer  
Arrowhead Research Corporation (the “Issuer”)
- Item 1(b).** Address of Issuer’s Principal Executive Offices  
The address of the Issuer’s principal executive offices is:  
225 South Lake Avenue, Suite 1050, Pasadena, California 91101, United States
- Item 2(a).** Name of Person Filing
- Item 2(b).** Address of Principal Business Office or, if none, Residence
- Item 2(c).** Citizenship
- QVT Financial LP  
1177 Avenue of the Americas, 9th Floor  
New York, New York 10036  
Delaware Limited Partnership
- QVT Financial GP LLC  
1177 Avenue of the Americas, 9th Floor  
New York, New York 10036  
Delaware Limited Liability Company
- QVT Associates GP LLC  
1177 Avenue of the Americas, 9th Floor  
New York, New York 10036  
Delaware Limited Liability Company
- Item 2(d).** Title of Class of Securities  
Common stock, \$0.001 par value per share (the “Common Stock”).
- Item 2(e).** CUSIP Number  
The CUSIP number of the Common Stock is 042797209.
- Item 3.** **If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**
- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).

- (e)  An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (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 (15 U.S.C. 80a-3);
- (j)  A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);
- (k)  Group, in accordance with §240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution: .

**Item 4. Ownership.**

- (a) Amount beneficially owned:

QVT Financial LP (“QVT Financial”) is the investment manager for private investment funds (collectively, the “Funds”). The Funds aggregately own 2,047,781 shares of Common Stock. Accordingly, QVT Financial may be deemed to be the beneficial owner of an aggregate amount of 2,047,781 shares of Common Stock, consisting of the shares owned by the Funds.

QVT Financial GP LLC, as General Partner of QVT Financial, may be deemed to beneficially own the same number of shares of Common Stock reported by QVT Financial. QVT Associates GP LLC, as General Partner of the Funds, may be deemed to beneficially own the aggregate number of shares of Common Stock owned by the Funds, and accordingly, QVT Associates GP LLC may be deemed to be the beneficial owner of an aggregate amount of 2,047,781 shares of Common Stock.

The percentage disclosed in Item 11 of the Cover Pages for each reporting person is calculated on the basis of 36,307,615 shares of Common Stock outstanding, comprised of (i) 33,235,943 shares issued and outstanding as of October 8, 2013 and (ii) 3,071,672 shares issued in a private offering on or about October 11, 2013, both figures as reported in the Issuer’s Form 8-K, filed with the Securities and Exchange Commission on October 10, 2013.

- (b) Percent of class:

See Item 11 of the Cover Pages to this Schedule 13G.

- (c) Number of shares as to which the person has:

- (i) Sole power to vote or to direct the vote

0

- (ii) Shared power to vote or to direct the vote

See item (a) above.

(iii) Sole power to dispose or to direct the disposition of  
0

(iv) Shared power to dispose or to direct the disposition of  
See item (a) above.

**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..... .

**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**

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**

By signing below I certify that, to the best of my 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.

**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.

Dated: October 18, 2013

**QVT FINANCIAL LP**

By QVT Financial GP LLC,  
its General Partner

By: /s/ Tracy Fu  
Name: Tracy Fu  
Title: Managing Member

By: /s/ Meg Eisner  
Name: Meg Eisner  
Title: Authorized Signatory

**QVT FINANCIAL GP LLC**

By: /s/ Tracy Fu  
Name: Tracy Fu  
Title: Managing Member

By: /s/ Meg Eisner  
Name: Meg Eisner  
Title: Authorized Signatory

**QVT ASSOCIATES GP LLC**

By: /s/ Tracy Fu  
Name: Tracy Fu  
Title: Managing Member

By: /s/ Meg Eisner  
Name: Meg Eisner  
Title: Authorized Signatory



EXHIBIT A  
JOINT FILING AGREEMENT

The undersigned hereby agree that the statement on Schedule 13G filed herewith (and any amendments thereto) signed by each of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended.

Dated: October 18, 2013

**QVT FINANCIAL LP**

By QVT Financial GP LLC,  
its General Partner

By: /s/ Tracy Fu  
Name: Tracy Fu  
Title: Managing Member

By: /s/ Meg Eisner  
Name: Meg Eisner  
Title: Authorized Signatory

**QVT FINANCIAL GP LLC**

By: /s/ Tracy Fu  
Name: Tracy Fu  
Title: Managing Member

By: /s/ Meg Eisner  
Name: Meg Eisner  
Title: Authorized Signatory

**QVT ASSOCIATES GP LLC**

By: /s/ Tracy Fu  
Name: Tracy Fu  
Title: Managing Member

By: /s/ Meg Eisner  
Name: Meg Eisner  
Title: Authorized Signatory