

ARROWHEAD RESEARCH CORP  
Form SC 13G/A  
January 22, 2016

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

SCHEDULE 13G  
Under the Securities Exchange Act of 1934

(AMENDMENT NO. 1)

**ARROWHEAD RESEARCH CORPORATION**

(Name of Issuer)

**COMMON STOCK, PAR VALUE \$0.001 PER SHARE**

(Title of Class of Securities)

**042797209**

(CUSIP Number)

**DECEMBER 31, 2015**

(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)

\* 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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|                                                                                      |                                                                                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1</b><br>NAMES OF REPORTING PERSONS                                               |                                                                                     |
| Integrated Core Strategies (US) LLC                                                  |                                                                                     |
| <b>2</b><br>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP                         |                                                                                     |
| (a) <input type="radio"/> o                                                          |                                                                                     |
| (b) <input type="radio"/> p                                                          |                                                                                     |
| <b>3</b><br>SEC USE ONLY                                                             |                                                                                     |
| <b>4</b><br>CITIZENSHIP OR PLACE OF ORGANIZATION                                     |                                                                                     |
| Delaware                                                                             |                                                                                     |
|                                                                                      | NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH |
| <b>5</b><br>SOLE VOTING POWER                                                        |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>6</b><br>SHARED VOTING POWER                                                      |                                                                                     |
| 42,585                                                                               |                                                                                     |
| <b>7</b><br>SOLE DISPOSITIVE POWER                                                   |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>8</b><br>SHARED DISPOSITIVE POWER                                                 |                                                                                     |
| 42,585                                                                               |                                                                                     |
| <b>9</b><br>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON             |                                                                                     |
| 42,585                                                                               |                                                                                     |
| <b>10</b> CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES       |                                                                                     |
| <input type="radio"/> <b>11</b><br>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) |                                                                                     |

0.1%

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|                                                                                |                                                                                     |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1</b>                                                                       |                                                                                     |
| NAMES OF REPORTING PERSONS                                                     |                                                                                     |
| ICS Opportunities, Ltd.                                                        |                                                                                     |
| <b>2</b>                                                                       |                                                                                     |
| CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP                               |                                                                                     |
| (a) <input type="radio"/>                                                      |                                                                                     |
| (b) <input type="radio"/>                                                      |                                                                                     |
| <b>3</b>                                                                       |                                                                                     |
| SEC USE ONLY                                                                   |                                                                                     |
| <b>4</b>                                                                       |                                                                                     |
| CITIZENSHIP OR PLACE OF ORGANIZATION                                           |                                                                                     |
| Cayman Islands                                                                 |                                                                                     |
|                                                                                | NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH |
| <b>5</b>                                                                       |                                                                                     |
| SOLE VOTING POWER                                                              |                                                                                     |
| -0-                                                                            |                                                                                     |
| <b>6</b>                                                                       |                                                                                     |
| SHARED VOTING POWER                                                            |                                                                                     |
| -0-                                                                            |                                                                                     |
| <b>7</b>                                                                       |                                                                                     |
| SOLE DISPOSITIVE POWER                                                         |                                                                                     |
| -0-                                                                            |                                                                                     |
| <b>8</b>                                                                       |                                                                                     |
| SHARED DISPOSITIVE POWER                                                       |                                                                                     |
| -0-                                                                            |                                                                                     |
| <b>9</b>                                                                       |                                                                                     |
| AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON                   |                                                                                     |
| -0-                                                                            |                                                                                     |
| <b>10</b> CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES |                                                                                     |
| <input type="radio"/>                                                          |                                                                                     |
| <b>11</b>                                                                      |                                                                                     |
| PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)                              |                                                                                     |

0.0%

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|                                                                                |                                                                                     |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1</b>                                                                       |                                                                                     |
| NAMES OF REPORTING PERSONS                                                     |                                                                                     |
| Integrated Assets, Ltd.                                                        |                                                                                     |
| <b>2</b>                                                                       |                                                                                     |
| CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP                               |                                                                                     |
| (a) <input type="radio"/>                                                      |                                                                                     |
| (b) <input type="radio"/>                                                      |                                                                                     |
| <b>3</b>                                                                       |                                                                                     |
| SEC USE ONLY                                                                   |                                                                                     |
| <b>4</b>                                                                       |                                                                                     |
| CITIZENSHIP OR PLACE OF ORGANIZATION                                           |                                                                                     |
| Cayman Islands                                                                 |                                                                                     |
|                                                                                | NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH |
| <b>5</b>                                                                       |                                                                                     |
| SOLE VOTING POWER                                                              |                                                                                     |
| -0-                                                                            |                                                                                     |
| <b>6</b>                                                                       |                                                                                     |
| SHARED VOTING POWER                                                            |                                                                                     |
| 8,700                                                                          |                                                                                     |
| <b>7</b>                                                                       |                                                                                     |
| SOLE DISPOSITIVE POWER                                                         |                                                                                     |
| -0-                                                                            |                                                                                     |
| <b>8</b>                                                                       |                                                                                     |
| SHARED DISPOSITIVE POWER                                                       |                                                                                     |
| 8,700                                                                          |                                                                                     |
| <b>9</b>                                                                       |                                                                                     |
| AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON                   |                                                                                     |
| 8,700                                                                          |                                                                                     |
| <b>10</b> CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES |                                                                                     |
| <input type="radio"/>                                                          |                                                                                     |
| <b>11</b>                                                                      |                                                                                     |
| PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)                              |                                                                                     |

0.0%

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|                                                                                      |                                                                                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1</b><br>NAMES OF REPORTING PERSONS                                               |                                                                                     |
| Millennium International Management LP                                               |                                                                                     |
| <b>2</b><br>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP                         |                                                                                     |
| (a) <input type="radio"/>                                                            |                                                                                     |
| (b) <input type="radio"/>                                                            |                                                                                     |
| <b>3</b><br>SEC USE ONLY                                                             |                                                                                     |
| <b>4</b><br>CITIZENSHIP OR PLACE OF ORGANIZATION                                     |                                                                                     |
| Delaware                                                                             |                                                                                     |
|                                                                                      | NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH |
| <b>5</b><br>SOLE VOTING POWER                                                        |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>6</b><br>SHARED VOTING POWER                                                      |                                                                                     |
| 8,700                                                                                |                                                                                     |
| <b>7</b><br>SOLE DISPOSITIVE POWER                                                   |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>8</b><br>SHARED DISPOSITIVE POWER                                                 |                                                                                     |
| 8,700                                                                                |                                                                                     |
| <b>9</b><br>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON             |                                                                                     |
| 8,700                                                                                |                                                                                     |
| <b>10</b> CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES       |                                                                                     |
| <input type="radio"/> <b>11</b><br>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) |                                                                                     |

0.0%

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|                                                                                      |                                                                                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1</b><br>NAMES OF REPORTING PERSONS                                               |                                                                                     |
| Millennium International Management GP LLC                                           |                                                                                     |
| <b>2</b><br>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP                         |                                                                                     |
| (a) <input type="radio"/>                                                            |                                                                                     |
| (b) <input type="radio"/>                                                            |                                                                                     |
| <b>3</b><br>SEC USE ONLY                                                             |                                                                                     |
| <b>4</b><br>CITIZENSHIP OR PLACE OF ORGANIZATION                                     |                                                                                     |
| Delaware                                                                             |                                                                                     |
|                                                                                      | NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH |
| <b>5</b><br>SOLE VOTING POWER                                                        |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>6</b><br>SHARED VOTING POWER                                                      |                                                                                     |
| 8,700                                                                                |                                                                                     |
| <b>7</b><br>SOLE DISPOSITIVE POWER                                                   |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>8</b><br>SHARED DISPOSITIVE POWER                                                 |                                                                                     |
| 8,700                                                                                |                                                                                     |
| <b>9</b><br>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON             |                                                                                     |
| 8,700                                                                                |                                                                                     |
| <b>10</b> CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES       |                                                                                     |
| <input type="radio"/> <b>11</b><br>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) |                                                                                     |

0.0%

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|                                                                                      |                                                                                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1</b><br>NAMES OF REPORTING PERSONS                                               |                                                                                     |
| Millennium Management LLC                                                            |                                                                                     |
| <b>2</b><br>CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP                         |                                                                                     |
| (a) <input type="radio"/>                                                            |                                                                                     |
| (b) <input type="radio"/>                                                            |                                                                                     |
| <b>3</b><br>SEC USE ONLY                                                             |                                                                                     |
| <b>4</b><br>CITIZENSHIP OR PLACE OF ORGANIZATION                                     |                                                                                     |
| Delaware                                                                             |                                                                                     |
|                                                                                      | NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH |
| <b>5</b><br>SOLE VOTING POWER                                                        |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>6</b><br>SHARED VOTING POWER                                                      |                                                                                     |
| 51,285                                                                               |                                                                                     |
| <b>7</b><br>SOLE DISPOSITIVE POWER                                                   |                                                                                     |
| -0-                                                                                  |                                                                                     |
| <b>8</b><br>SHARED DISPOSITIVE POWER                                                 |                                                                                     |
| 51,285                                                                               |                                                                                     |
| <b>9</b><br>AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON             |                                                                                     |
| 51,285                                                                               |                                                                                     |
| <b>10</b> CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES       |                                                                                     |
| <input type="radio"/> <b>11</b><br>PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) |                                                                                     |
| 0.1%                                                                                 |                                                                                     |

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|                                                                      |                                                                                     |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1</b>                                                             |                                                                                     |
| NAMES OF REPORTING PERSONS                                           |                                                                                     |
| Israel A. Englander                                                  |                                                                                     |
| <b>2</b>                                                             |                                                                                     |
| CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP                     |                                                                                     |
| (a) <input type="radio"/>                                            |                                                                                     |
| (b) <input type="radio"/>                                            |                                                                                     |
| <b>3</b>                                                             |                                                                                     |
| SEC USE ONLY                                                         |                                                                                     |
| <b>4</b>                                                             |                                                                                     |
| CITIZENSHIP OR PLACE OF ORGANIZATION                                 |                                                                                     |
| United States                                                        |                                                                                     |
|                                                                      | NUMBER OF<br>SHARES<br>BENEFICIALLY<br>OWNED BY<br>EACH<br>REPORTING<br>PERSON WITH |
| <b>5</b>                                                             |                                                                                     |
| SOLE VOTING POWER                                                    |                                                                                     |
| -0-                                                                  |                                                                                     |
| <b>6</b>                                                             |                                                                                     |
| SHARED VOTING POWER                                                  |                                                                                     |
| 51,285                                                               |                                                                                     |
| <b>7</b>                                                             |                                                                                     |
| SOLE DISPOSITIVE POWER                                               |                                                                                     |
| -0-                                                                  |                                                                                     |
| <b>8</b>                                                             |                                                                                     |
| SHARED DISPOSITIVE POWER                                             |                                                                                     |
| 51,285                                                               |                                                                                     |
| <b>9</b>                                                             |                                                                                     |
| AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON         |                                                                                     |
| 51,285                                                               |                                                                                     |
| <b>10</b>                                                            |                                                                                     |
| CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES |                                                                                     |
| <input type="radio"/>                                                |                                                                                     |
| <b>11</b>                                                            |                                                                                     |

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PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

0.1%

**12**

TYPE OF REPORTING PERSON

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Item 1.

(a)Name of Issuer:

Arrowhead Research Corporation, a Delaware corporation (the "Issuer").

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

225 S. Lake Avenue, Suite 1050  
Pasadena, California 91101

Item 2.

(a)Name of Person Filing:

(b)Address of Principal Business Office:

(c)Citizenship:

Integrated Core Strategies (US) LLC  
c/o Millennium Management LLC  
666 Fifth Avenue  
New York, New York 10103  
Citizenship: Delaware

ICS Opportunities, Ltd.  
c/o Millennium International Management LP  
666 Fifth Avenue  
New York, New York 10103  
Citizenship: Cayman Islands

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Integrated Assets, Ltd.  
c/o Millennium International Management LP  
666 Fifth Avenue  
New York, New York 10103  
Citizenship: Cayman Islands

Millennium International Management LP  
666 Fifth Avenue  
New York, New York 10103  
Citizenship: Delaware

Millennium International Management GP LLC  
666 Fifth Avenue  
New York, New York 10103  
Citizenship: Delaware

Millennium Management LLC  
666 Fifth Avenue  
New York, New York 10103  
Citizenship: Delaware

Israel A. Englander  
c/o Millennium Management LLC  
666 Fifth Avenue  
New York, New York 10103  
Citizenship: United States

(d)Title of Class of Securities:common stock, par value \$0.001 per share ("Common Stock")

(e)CUSIP Number: 042797209

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Item 3. If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b), 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);
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(h) o A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);

(g) o A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);

(i) o 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) o Group, in accordance with §240.13d-1(b)(1)(ii)(J).

**Item 4. Ownership**

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

**(a) Amount Beneficially Owned:**

As of the close of business on January 21, 2016: i) Integrated Core Strategies (US) LLC, a Delaware limited liability company ("Integrated Core Strategies"), beneficially owned 42,585 shares of the Issuer's Common Stock; and ii) Integrated Assets, Ltd., an exempted limited company organized under the laws of the Cayman Islands ("Integrated Assets"), beneficially owned 8,700 shares of the Issuer's Common Stock. As of the close of business on January 21, 2016, ICS Opportunities, Ltd., an exempted limited company organized under the laws of the Cayman Islands, no longer beneficially owned any shares of the Issuer's Common Stock.

Millennium International Management LP, a Delaware limited partnership ("Millennium International Management"), is the investment manager to Integrated Assets and may be deemed to have shared voting control and investment discretion over securities owned by Integrated Assets.

Millennium International Management GP LLC, a Delaware limited liability company ("Millennium International Management GP"), is the general partner of Millennium International Management and may also be deemed to have shared voting control and investment discretion over securities owned by Integrated Assets.

Millennium Management LLC, a Delaware limited liability company ("Millennium Management"), is the general partner of the managing member of Integrated Core Strategies and may be deemed to have shared voting control and investment discretion over securities owned by Integrated Core Strategies. Millennium Management is also the general partner of the 100% shareholder of Integrated Assets and may be deemed to have shared voting control and investment discretion over securities owned by Integrated Assets.

Israel A. Englander, a United States citizen ("Mr. Englander"), is the managing member of Millennium International Management GP and Millennium Management and may also be deemed to have shared voting control and investment discretion over securities owned by Integrated Core Strategies and Integrated Assets.

The foregoing should not be construed in and of itself as an admission by Millennium International Management, Millennium International Management GP, Millennium Management or Mr. Englander as to beneficial ownership of the securities owned by Integrated Core Strategies or Integrated Assets, as the case may be.

**(b) Percent of Class:**

As of the close of business on January 21, 2016, Millennium Management and Mr. Englander may be deemed to have beneficially owned 51,285 shares or 0.1% of the Issuer's Common Stock outstanding (see Item 4(a) above), which percentage was calculated based on 59,627,499 shares of Common Stock outstanding as of January 11, 2016, as per the Issuer's Proxy Statement dated January 22, 2016.

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

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

-0-

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

51,285 (See Item 4(b))

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

-0-

(iv) Shared power to dispose or to direct the disposition of

51,285 (See Item 4(b))

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 p .

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

See Exhibit I.

Item 9. Notice of Dissolution of Group

Not applicable.

Item 10. Certification

By signing below each of the undersigned certifies that, to the best of 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.

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Exhibits:

Exhibit I: Joint Filing Agreement, dated as of January 21, 2016, by and among Integrated Core Strategies (US) LLC, ICS Opportunities, Ltd., Integrated Assets, Ltd., Millennium International Management LP, Millennium International Management GP LLC, Millennium Management LLC and Israel A. Englander.

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**SIGNATURE**

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

Dated: January 21, 2016

INTEGRATED CORE STRATEGIES (US) LLC

By: Integrated Holding Group LP,  
its Managing Member

By: Millennium Management LLC,  
its General Partner

By: /s/ David Nolan  
Name: David Nolan  
Title: Vice Chairman

ICS OPPORTUNITIES, LTD.

By: Millennium International Management LP,  
its Investment Manager

By: /s/ David Nolan  
Name: David Nolan  
Title: Vice Chairman

INTEGRATED ASSETS, LTD.

By: Millennium International Management LP,  
its Investment Manager

By: /s/ David Nolan  
Name: David Nolan  
Title: Vice Chairman

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MILLENNIUM INTERNATIONAL MANAGEMENT LP

By: /s/David Nolan  
Name: David Nolan  
Title: Vice Chairman

MILLENNIUM INTERNATIONAL MANAGEMENT GP LLC

By: /s/David Nolan  
Name: David Nolan  
Title: Vice Chairman

MILLENNIUM MANAGEMENT LLC

By: /s/David Nolan  
Name: David Nolan  
Title: Vice Chairman

/s/ Israel A. Englander by David Nolan  
pursuant to Power of Attorney filed with  
the SEC on June 6, 2005  
Israel A. Englander

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**EXHIBIT I                      JOINT FILING AGREEMENT**

This will confirm the agreement by and among the undersigned that the Schedule 13G filed with the Securities and Exchange Commission on or about the date hereof with respect to the beneficial ownership by the undersigned of the Common Stock, par value \$0.001 per share, of Arrowhead Research Corporation, a Delaware corporation, will be filed on behalf of each of the persons and entities named below in accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

Dated: January 21, 2016

INTEGRATED CORE STRATEGIES (US) LLC

By: Integrated Holding Group LP,  
its Managing Member

By: Millennium Management LLC,  
its General Partner

By: /s/ David Nolan  
Name: David Nolan  
Title: Vice Chairman

ICS OPPORTUNITIES, LTD.

By: Millennium International Management LP,  
its Investment Manager

By: /s/ David Nolan  
Name: David Nolan  
Title: Vice Chairman

INTEGRATED ASSETS, LTD.

By: Millennium International Management LP,  
its Investment Manager

By: /s/ David Nolan  
Name: David Nolan  
Title: Vice Chairman

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MILLENNIUM INTERNATIONAL MANAGEMENT LP

By: /s/David Nolan  
Name: David Nolan  
Title: Vice Chairman

MILLENNIUM INTERNATIONAL MANAGEMENT GP LLC

By: /s/David Nolan  
Name: David Nolan  
Title: Vice Chairman

MILLENNIUM MANAGEMENT LLC

By: /s/David Nolan  
Name: David Nolan  
Title: Vice Chairman

/s/ Israel A. Englander by David Nolan  
pursuant to Power of Attorney filed with  
the SEC on June 6, 2005  
Israel A. Englander