

ARROWHEAD RESEARCH CORP  
 Form 4  
 August 24, 2009

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 McDonnel Paul Clayton

2. Issuer Name and Ticker or Trading Symbol  
 ARROWHEAD RESEARCH CORP  
 [ARWR]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)  
 201 SOUTH LAKE AVENUE,  
 SUITE 703  
 (Street)

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 07/17/2009

\_\_\_\_ Director  
 Officer (give title below)  
 \_\_\_\_ 10% Owner  
 \_\_\_\_ Other (specify below)  
 CFO (former)

PASADENA, CA 91101

(City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |     |       |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|-----|-------|
|                                 |                                      |  |                                | (A) or (D)  | Code  | V  | Amount                            | (D) | Price |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

**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 control number.**

SEC 1474 (9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative | 2. Conversion | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if | 4. Transaction | 5. Number of Derivative | 6. Date Exercisable and Expiration Date | 7. Title and Amount of Underlying Securities |
|------------------------|---------------|--------------------------------------|-------------------------------|----------------|-------------------------|---|--|
|------------------------|---------------|--------------------------------------|-------------------------------|----------------|-------------------------|---|--|

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| Security<br>(Instr. 3) | or Exercise<br>Price of<br>Derivative<br>Security | any<br>(Month/Day/Year) | Code<br>(Instr. 8) | Securities<br>Acquired (A) or<br>Disposed of (D)<br>(Instr. 3, 4, and<br>5) | (Month/Day/Year) |     |                     | (Instr. 3 and 4)   |                 |                               |
|------------------------|---|-------------------------|--------------------|---|------------------|-----|---------------------|--------------------|-----------------|-------------------------------|
|                        |   |                         | Code               | V   | (A)              | (D) | Date<br>Exercisable | Expiration<br>Date | Title           | Amount<br>Number of<br>Shares |
| Stock<br>Option<br>(1) | \$ 4.61   | 07/17/2009              | J                  |   | 100,000          |     | 10/01/2006          | 03/13/2016         | Common<br>stock | 100,000                       |
| Stock<br>Option<br>(1) | \$ 5  | 07/17/2009              | J                  |   | 100,000          |     | 11/01/2006          | 08/21/2016         | Common<br>Stock | 100,000                       |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |         |              |
|---|---------------|-----------|---------|--------------|
|   | Director      | 10% Owner | Officer | Other        |
| McDonnel Paul Clayton<br>201 SOUTH LAKE AVENUE, SUITE 703<br>PASADENA, CA 91101 |               |           |         | CFO (former) |

## Signatures

Paul Clayton  
McDonnel  
08/17/2009

\_\_Signature of Reporting Person Date

## Explanation of Responses:

\* 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).

(1) Voluntary termination of out-of-the-money options to allow for sufficient available shares for issuance in a financing transaction.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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