FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

77de1....gte1., 21e1.2ee 1e

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287
Estimated average burden
hours per response: 0.5

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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) Director 10% Owner Officer (give title Other (specify			
(Last) (First) (Middle) 201 SOUTH LAKE AVENUE, SUITE 703						3. Date of Earliest Transaction (Month/Day/Year) 07/17/2009							X below) below) CFO (former)				
(Street) PASADENA CA		91101	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. In Line	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City) (State) (Zip)																	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution Date,			Code (In	Transaction Disposed Of (D) Code (Instr.				5. Amoun Securities Beneficia Owned Fo Reported	s F lly (I ollowing (I	. Ownership form: Direct D) or Indirect) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	,	Amount	(A) o	Price	Transacti (Instr. 3 a	on(s)		(111511.4)	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Yea	Code (Transaction Code (Instr.		umber of vative urities uired (A) isposed D) (Instr. and 5)	6. Date Exercisable an Expiration Date (Month/Day/Year)			7. Title and Amor of Securities Underlying Derivative Secur (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable		opiration ate	Title	Amount or Number of Shares		(Instr. 4)	1(3)		
Stock Option ⁽¹⁾	\$4.61	07/17/2009		J			100,000	10/01/2006	03	3/13/2016	Common stock	100,000	\$0	195,000	D		
Stock Option ⁽¹⁾	\$5	07/17/2009		J			100,000	11/01/2006	08	3/21/2016	Common Stock	100,000	\$0	95,000	D		

Explanation of Responses:

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

Paul Clayton McDonnel

08/17/2009

** Signature of Reporting Person

Date

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

- * 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).

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

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 Number.