FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

1. Name and Address of Reporting Person* RONALD C ELKINS					CR'	2. Issuer Name and Ticker or Trading Symbol CRYOLIFE INC [CRY]											nip of Reporting F oplicable) ector		son(s) to	
(Last)	(Fi	st) (M) (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 08/18/2009									Office	er (give title v)		Other (specify below)	
CRYOLIFE, INC. 1655 ROBERTS BOULEVARD, N.W.					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) KENNES	(Street) KENNESAW GA 30144														X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(St	ate) (Z	Zip)																	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/					/Year)	Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (. Disposed Of (D) (Instr. 3 and 5)						3, 4 Secu		cially I		ct (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount		A) or D)	Price	Repor Trans			(iiisu .	-)	(111341. 4)
Common Stock 08/18/20						009			S		1,500		D	\$7.1	57.17 ⁽¹⁾		72,750		D	
	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)	vative Conversion Date prity or Exercise (Month/Day/Year) if any			Code (li	ransaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amount or Numbor Of Title Shares		nstr.	8. Pr of Deriv Secu (Inst	vative rity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ow Fo Dir or (I) 4)	vnership rm: rect (D) Indirect (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. \$7.17 is the weighted average price for a range of sales between \$7.16 and \$7.18. Reporting person undertakes to provide upon request by the Securities and Exchange Commission staff, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

Remarks:

/s/ Steven G. Anderson, Attorney-in-Fact 08/19/2009

** 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.