

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**

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* <u>McCall Ronald D</u>  (Last) (First) (Middle) CRYOLIFE, INC. 1655 ROBERTS BOULEVARD, NW  (Street) KENNESAW GA 30144  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>CRYOLIFE INC [ CRY ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>04/08/2008</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> 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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	04/08/2008		M		6,000	A	\$7.74	144,526	D	
Common Stock	04/08/2008		F		4,753	D	\$9.77	139,773	D	
Common Stock	04/08/2008		M		525	A	\$7.6	140,298	D	
Common Stock	04/08/2008		F		391	D	\$10.19	139,907	D	
Common Stock	04/08/2008		M		4,363	A	\$5.27	144,270	D	
Common Stock	04/08/2008		F		2,256	D	\$10.19	142,014	D	
Common Stock								16,000	I	By Spouse

**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/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Stock Option	\$7.74	04/08/2008		M		6,000		04/30/2003 <sup>(1)</sup>	04/30/2008	Common Stock	6,000	\$0	0	D	
Stock Option	\$7.6	04/08/2008		M		525		04/30/2003 <sup>(1)</sup>	04/30/2008	Common Stock	525	\$0	0	D	
Stock Option	\$5.27	04/08/2008		M		4,363		06/30/2004 <sup>(2)</sup>	06/30/2009	Common Stock	4,363	\$0	5,637	D	

**Explanation of Responses:**

1. Stock option vested immediately on date of grant (April 30, 2003).
2. Stock option vested immediately on date of grant (June 30, 2004).

**Remarks:**

/s/ Ronald D. McCall

04/09/2008

\*\* Signature of Reporting Person Date

\* 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.

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