McCall Ronald D Form 4 May 24, 2010

FORM 4

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

OMB APPROVAL OMB

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

Section 16. Form 4 or Form 5 obligations may continue. See Instruction

Check this box

if no longer

subject to

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading McCall Ronald D Issuer Symbol CRYOLIFE INC [CRY] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) _X__ Director 10% Owner Officer (give title Other (specify CRYOLIFE, INC., 1655 ROBERTS 05/20/2010 below) BOULEVARD, NW 4. If Amendment, Date Original (Street) 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line)

KENNESAW, GA 30144

(State)

(Zip)

(City)

X Form filed by One Reporting Person Form filed by More than One Reporting uined Disposed of an Paraffeiall O

(City)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									
1.Title of Security	2. Transaction Date (Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of			5. Amount of Securities	6. Ownership Form: Direct	7. Nature of Indirect			
(Instr. 3)	(Month/Day/Tear)	Execution Date, if any	Code	Code (D)			Beneficially	(D) or	Beneficial	
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)			Owned Following	Indirect (I) (Instr. 4)	Ownership (Instr. 4)	
					(A)		Reported	,	,	
					or	ъ.	Transaction(s) (Instr. 3 and 4)			
Common			Code V	Amount 10,000	(D)	Price				
Stock	05/20/2010		A	(1)	A	\$ 0	144,464	D		
Common Stock	05/20/2010		A	2,748 (2)	A	\$ 0	147,212	D		
Common Stock							16,000	I	By Spouse	

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

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number.

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	xecution Date, if Transactio		onNumber Expiration Date		Amour	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underl	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ties	(Instr. 5)	Bene
	Derivative				Securities Acquired			(Instr.	3 and 4)		Owne
	Security										Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration		or Namel		
						Exercisable	Date	Title Number			
				C 1 W	(A) (D)				of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

McCall Ronald D CRYOLIFE, INC. 1655 ROBERTS BOULEVARD, NW KENNESAW, GA 30144

X

Signatures

/s/ D.A. Lee, Attorney-in-Fact 05/24/2010

**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).
- Represents shares of restricted stock that vest on the first anniversary of the grant date if the reporting person remains a member of the (1) Company's board of directors, subject to earlier vesting upon certain events including death, disability and retirement from the board after serving out his full term because the director is not standing for re-election at the end of the term.
- Represents shares of restricted stock that were received as supplemental presiding director compensation and that vest on the first anniversary of the grant date if the reporting person remains a member of the Company's board of directors, subject to earlier vesting upon certain events including death, disability and retirement from the board after serving out his full term because the director is not standing for re-election at the end of the term.

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.

Reporting Owners 2