## FORM 5

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

Form 3 Holdings Reported.

Form 4 Transactions Reported.

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

OMB APPROVAL OMB Number: 3235-0362 Estimated average burden hours per response 1.0

## ANNUAL 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 <sup>*</sup> ASHMORE SIDNEY B				2. Issuer Name and Ticker or Trading Symbol CRYOLIFE INC [CRY]									ck all app	ationship of Reporting F k all applicable) Director		. ,	o Issuer Owner
(Last) (First) ( CRYOLIFE, INC.			Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2004							y/Year)	Х	belov	er (give title w) ce Preside		belo	'
1655 ROBERTS BLVD., N.W.				4. If Amendment, Date of Original Filed (Month/Day/Year)							· ·	6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) KENNESAW GA			0144									X	Form	Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	City) (State) (Zip)																
	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		3. Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5				) Secu				ership	7. Nature of Indirect Beneficial
			(month, Day, real)	(Month/Day/Y	'ear)	8)		Amou	nt (A) or (D)		Price		Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)		Direct (D) or		Ownership (Instr. 4)
Common Stock													18,728(1)			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)	Derivative Conversion Date Security or Exercise (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)			Amo Secu Unde Deriv Secu 3 and	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe of		Price erivative ccurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownershi Form: Direct (D) or Indired (I) (Instr. 4)	Beneficial Ownership	

Explanation of Responses:

1. Includes 346 shares acquired under the CryoLife, Inc. discounted employee stock purchase plan during 2004.

**Remarks:** 

/s/ Sidney B. Ashmore

02/07/2005

\*\* Signature of Reporting Person Date

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

 $^{\ast}$  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.