

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL	
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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>Horton Amy</u> <hr/> (Last) (First) (Middle) CRYOLIFE, INC. 1655 ROBERTS BLVD., NW <hr/> (Street) KENNESAW GA 30144 <hr/> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 08/01/2006	3. Issuer Name and Ticker or Trading Symbol CRYOLIFE INC [CRY]	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Chief Accounting Officer	5. If Amendment, Date of Original Filed (Month/Day/Year) <hr/> 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 Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	12,819 ⁽¹⁾	D	

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
Stock Option (Date of Grant: 6-29-04)	06/29/2005 ⁽²⁾	12/29/2009	Common Stock 8,838	5.36	D	
Stock Option (Date of Grant: 6-29-04)	06/29/2005 ⁽²⁾	12/29/2009	Common Stock 1,162	5.36	D	
Stock Option (Date of Grant: 2-21-06)	02/21/2007 ⁽²⁾	08/21/2011	Common Stock 9,000	4.25	D	
Stock Option (Date of Grant: 8-31-02)	08/31/2003 ⁽²⁾	02/29/2008	Common Stock 16,465	2.2	D	
Stock Option (Date of Grant: 8-31-02)	08/31/2003 ⁽²⁾	02/29/2008	Common Stock 685	2.2	D	
Stock Option (Date of Grant: 12-6-01)	09/30/2005 ⁽³⁾	06/06/2007	Common Stock 10,000	30.14	D	

Explanation of Responses:

- Includes 1,715 shares acquired under the CryoLife, Inc. Employee Stock Purchase Plan.
- Stock options vest in 20% increments beginning on first anniversary of grant date
- Original vesting schedule of stock options was in 20% increments beginning on first anniversary of grant date, however, vesting was accelerated so that all options became fully vested on 9/30/05.

Remarks:

/s/ Amy Horton 08/10/2006

** 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 5 (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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