FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL | | | | | | | |
|--------------------------|-----------|--|--|--|--|--|--|
| OMB Number: | 3235-0287 | | | | | | |
| Estimated average burden | | | | | | | |
| 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

| | | | | | | | | | | | ompany Act | 01 1940 | | | | | | | |
|------------------------------------------------------|------------------------------------------|--------|---------------------------------------|---------------------------|--------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|----------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|--|
| 1. Name and Address of Reporting Person* Horton Amy | | | | | | 2. Issuer Name and Ticker or Trading Symbol CRYOLIFE INC [CRY] | | | | | | | | | Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner | | | | |
| (Last) CRYOLIFE, I | (Firs | t) (N | ⁄liddle | e) | | 3. Date of Earliest Transaction (Month/Day/Year) 08/14/2008 | | | | | | | | | Offic | er (give title w) | | (specify | |
| 1655 ROBERTS BLVD., NW | | | | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | | | | |
| (Street) KENNESAW GA 30144 | | | | | | | | | | | | | | | X Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | |
| (City) | (Sta | te) (Z | ľip) | | | | | | | | | | | | | | | | |
| | | Table | e I - | Non-Deriv | ative S | Secu | ırities | Ac | quired | l, Di | sposed o | f, or B | enefic | cially | Own | ed | | | |
| 1. Title of Security (Instr. 3) | | | 2. Transactio Date (Month/Day/\ | ear) E | Execution Date, | | | 3. Transact Code (In 8) | | 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5) | | | 4 and Securities Beneficia Owned | | rities ficially ed | 6. Ownership Form: Direct (D) or Indirect (I) | 7. Nature of Indirect Beneficial Ownership | | |
| | | | | | | | | | Code | v | Amount | (A) or (D) | Price | | Following Reported Transaction(s) (Instr. 3 and 4) | | (Instr. 4) | (Instr. 4) | |
| Common Stock 08/14/20 | | | | | | 08 | | | S | | 1,151 | D | \$1 | 4.48 | | 29,020 | D | | |
| Common Stock 08/14/ | | | | | 08 | | | | S | | 100 | D | \$14 | 4.4401 | | 28,920 | D | | |
| Common Stock 08/14/2 | | | | | 08 | | | | S | | 1,049 | D | \$14. | 4.4201 | | 27,871 | D | | |
| Common Stock 08/14/20 | | | | | 08 | | | | S | | 1,700 | D | \$14. | 4.4212 | | 26,171 | D | | |
| | | Та | ble | ll - Derivat e.g., pu) | | | | | | | osed of, convertib | | | | wned | I | | | |
| Security or E (Instr. 3) Price | iversion Exercise se of ivative | | Exec if an | Deemed cution Date, | 4. Transac Code (I 8) | tion | 5. Numbe of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 | | | Exer | cisable and Date | 7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4) | | 8. F of Der Sec (Ins | Price rivative curity str. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
| | | | | | Code | v | | | Date Exercisable | | Expiration Date | Title | Amour or Number of Shares | r | | | | | |

Explanation of Responses:

Remarks:

/s/ Amy Horton

08/14/2008

** Signature of Reporting Person Date

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

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.

 $^{^{\}star}$ 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).