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

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**FORM 8-K**

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**CURRENT REPORT  
PURSUANT TO SECTION 13 OR 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

**Date of Report (Date of earliest event reported): March 2, 2011**

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**CRYOLIFE, INC.**

(Exact name of registrant as specified in its charter)

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**Florida**  
(State or Other Jurisdiction  
of Incorporation)

**1-13165**  
(Commission File Number)

**59-2417093**  
(IRS Employer  
Identification No.)

**1655 Roberts Boulevard, N.W., Kennesaw, Georgia 30144**  
(Address of principal executive office) (zip code)

**Registrant's telephone number, including area code: (770) 419-3355**

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(Former name or former address, if changed since last report)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Section 1 Registrant's Business and Operations**

Item 1.01 Entry into a Material Definitive Agreement.

On March 2, 2011, CryoLife, Inc. (the "Company" or "CryoLife") and certain of its subsidiaries amended CryoLife's Credit Facility (the "Credit Facility") with General Electric Capital Corporation ("GECC"), as lender, letter of credit issuer, and agent for all lenders. The amendment extends the term of the Credit Facility from March 27, 2011 to June 30, 2011.

As of March 2, 2011, there were no amounts outstanding under the Credit Facility. The Company has a \$189,000 letter of credit from GE under the Credit Facility. The other material terms of the Credit Facility remain unchanged. A description of these terms, incorporated herein by reference, is contained in the Company's Current Reports on Form 8-K filed March 27, 2008, January 14, 2010, and June 3, 2010.

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, CryoLife, Inc. has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

CRYOLIFE, INC.

Date: March 8, 2011

By: /s/ D. A. Lee  
Name: D. Ashley Lee  
Title: Executive Vice President, Chief  
Operating Officer and Chief  
Financial Officer

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