

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

SCHEDULE TO

**Tender Offer Statement under Section 14(d)(1) or 13(e)(1) of the
Securities Exchange Act of 1934
(Amendment No. 4)**

Cardiogenesis Corporation

(Name of Subject Company (Issuer))

CL Falcon, Inc.

a wholly-owned subsidiary of
(Offeror)

CryoLife, Inc.

(Parent of Offeror)
(Names of Filing Persons)

Common Stock, No Par Value Per Share
(Title of Class of Securities)

14159W-10-9
(CUSIP Number of Class of Securities)

Jeffrey W. Burris, Esq.
Vice President and General Counsel
CryoLife, Inc.
1655 Roberts Boulevard, NW
Kennesaw, Georgia 30144
(770) 419-3355

(Name, Address and Telephone Number of Person Authorized
to Receive Notices and Communications on Behalf of Filing Persons)

Copies to:

B. Joseph Alley, Jr., Esq.
Arnall Golden Gregory LLP
171 17th Street, NW, Suite 2100
Atlanta, Georgia 30363-1031
(404) 873-8500

Calculation of Filing Fee

Transaction Valuation*		Amount of Filing Fee**	
\$	24,902,247	\$	2,891.16

* Estimated for purposes of calculating the amount of the filing fee only, in accordance with Rule 0-11(a)(4) and 0-11(d) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). This amount is determined by multiplying 52,425,784 shares of Cardiogenesis Corporation ("Cardiogenesis") common stock (representing the number of shares, including shares of common stock outstanding, options and warrants) by \$0.457 per share, which is the offer price.

** The amount of the filing fee was calculated in accordance with Rule 0-11(d) of the Exchange Act and Fee Rate Advisory # 5 for fiscal 2011, issued December 22, 2010, by multiplying the transaction valuation by 0.00011610.

Check the box if any part of the fee is offset as provided by Rule 0-11(a)(2) and identify the filing with which the offsetting fee was previously paid. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

Amount Previously Paid: \$2,891.16

Filing Party: CL Falcon, Inc. and CryoLife, Inc.

Form or Registration No.: Schedule TO

Date Filed April 5, 2011

Check the box if the filing relates solely to preliminary communications made before the commencement of a tender offer.

Check the appropriate boxes below to designate any transactions to which the statement relates:

- third-party tender offer subject to Rule 14d-1.
- issuer tender offer subject to Rule 13e-4.
- going-private transaction subject to Rule 13e-3.
- amendment to Schedule 13D under Rule 13d-2.

Check the following box if the filing is a final amendment reporting the results of the tender offer: "

This Amendment No. 4 amends and supplements the Tender Offer Statement on Schedule TO (as amended, the "Schedule TO") relating to the offer by CL Falcon, Inc., a Florida corporation ("Merger Sub"), and a wholly owned subsidiary of CryoLife, Inc., a Florida corporation ("CryoLife"), to purchase 49.9 % of the outstanding shares of common stock, no par value (the "Shares"), of Cardiogenesis Corporation, a California corporation ("Cardiogenesis"), at a purchase price of \$0.4570 per Share, net to the seller in cash, without interest thereon and less any applicable withholding taxes, upon the terms and subject to the conditions set forth in the Offer to Purchase, dated April 5, 2011, as amended (which, together with any amendments and supplements thereto, collectively constitute the "Offer to Purchase"), and in the related letter of transmittal, copies of which are attached to the Schedule TO as Exhibits (a)(1)(A) and (a)(1)(B), respectively, and revisions to which are described in subsequent amendments to the Schedule TO (and which, together with the Offer to Purchase, constitute the "Offer").

The information set forth in the Offer to Purchase (as amended hereby) is hereby incorporated by reference in answer to Items 1 through 11 of the Schedule TO, except that such information is hereby amended and supplemented to the extent specifically provided herein. Capitalized terms used but not otherwise defined herein have the meanings ascribed to such terms in the Schedule TO.

ITEMS 1, 4, 8 and Summary Term Sheet; Terms of the Transaction; Interest in the Securities of the Subject Company; Other Information
11

"The Offer and withdrawal rights expired at 12:00 midnight, New York City time, at the end of the day on May 2, 2011. The Depositary has advised us that 38,482,022 Shares were validly tendered and not validly withdrawn from the Offer, representing a total of approximately 82.7% of the outstanding Shares. Additionally, the Depositary has advised us that an additional 318,892 Shares have been validly tendered by notice of guaranteed delivery. As previously announced, CryoLife is seeking to acquire not more than 49.9% of the outstanding Shares. As a result, assuming that all shares subject to notice of guaranteed delivery are actually delivered, the Depositary will apply a proration factor of 0.59847 to all tendered Shares, representing the percentage of each tendering shareholder's Shares that which will be accepted in the Offer. The remaining Shares will be returned to the shareholder, and CryoLife and Merger Sub expect to acquire them in a subsequent merger.

For example, if a shareholder tendered a total of 100 Shares, CryoLife will accept 60 Shares in the Offer and return 40 Shares to that shareholder (assuming the final proration factor does not change and subject to any adjustments necessary to ensure that the 49.9% limit is not exceeded).

On May 3, 2011, CryoLife issued a press release announcing the results and expiration of the Offer. A copy of the press release is attached hereto as Exhibit (a)(5)(G), and the information set forth in the press release is incorporated herein by reference."

ITEM 12 EXHIBITS.

Item 12 of this Schedule TO is hereby amended and supplemented by adding the following exhibit thereto:

(a)(5)(G) Joint Press Release issued by CryoLife, Inc. and Cardiogenesis Corporation, dated May 3, 2011.

SIGNATURE

After due inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

CRYOLIFE, INC.

By: /s/ D. Ashley Lee
Name: D. Ashley Lee
Title: Executive Vice President, Chief Operating Officer and Chief Financial Officer
Date: May 3, 2011

CL FALCON, INC.

By: /s/ D. Ashley Lee
Name: D. Ashley Lee
Title: Vice President, Finance
Date: May 3, 2011

EXHIBIT INDEX

- (a)(1)(A) Offer to Purchase dated April 5, 2011.*
- (a)(1)(B) Form of Letter of Transmittal.*
- (a)(1)(C) Form of Notice of Guaranteed Delivery.*
- (a)(1)(D) Form of Letter to Brokers, Dealers, Commercial Banks, Trust Companies and Other Nominees.*
- (a)(1)(E) Form of Letter to Clients for use by Brokers, Dealers, Commercial Banks, Trust Companies and Other Nominees.*
- (a)(1)(F) Complaint filed in the Superior Court of the State of California, Orange County, captioned Patrick J. Grace v. Paul McCormick, Marvin Slepian, Gregory Waller, Ann Sabahat, Raymond Cohen, Cardiogenesis Corporation, CryoLife, Inc, and CL Falcon, Inc. (Case No. 30-2011-00464472-CU-SL-CXC).*
- (a)(1)(G) Complaint filed in the Superior Court of the State of California, Orange County, captioned Marion William Habiak vs. Cardiogenesis Corporation John McCormick, Raymond W. Cohen, Ann T. Sabahat, Marvin J. Slepian, Gregory D. Waller, CryoLife, Inc, CL Falcon, Inc., and Does 1 through 20, inclusive, (Case No. 30-2011-00464844-CU-SL-CXC).*
- (a)(5)(A) Joint Press Release issued by CryoLife, Inc. and Cardiogenesis Corporation, dated March 29, 2011, announcing the execution of the Agreement and Plan of Merger, dated as of March 28, 2011, among CryoLife, Inc., CL Falcon, Inc. and Cardiogenesis Corporation (incorporated by reference to Exhibit 99.1 to CryoLife, Inc.'s Current Report on Form 8-K filed on March 29, 2011).*
- (a)(5)(B) Joint Press Release issued by CryoLife, Inc. and Cardiogenesis Corporation, dated April 5, 2011, announcing the commencement of the Offer. *
- (a)(5)(C) Slide Presentation dated March 29, 2011 (incorporated by reference to Exhibit 99.2 to CryoLife, Inc.'s Current Report on Form 8-K filed on March 29, 2011).*
- (a)(5)(D) Joint Press Release issued by CryoLife, Inc. and Cardiogenesis Corporation, dated April 15, 2011, announcing the execution of the Amended and Restated Agreement and Plan of Merger, dated as of April 14, 2011, among CryoLife, Inc., CL Falcon, Inc. and Cardiogenesis Corporation (incorporated by reference to Exhibit 99.1 to CryoLife, Inc.'s Current Report on Form 8-K filed on April 15, 2011).*
- (a)(5)(E) Current Report on Form 8-K filed on April 15, 2011 (filed separately on April 15, 2011 and incorporated herein by reference).*
- (a)(5)(G) Joint Press Release issued by CryoLife, Inc. and Cardiogenesis Corporation, dated May 3, 2011.
- (d)(1) Amended and Restated Agreement and Plan of Merger, dated as of April 14, 2011, among CryoLife, Inc., CL Falcon, Inc. and Cardiogenesis Corporation (incorporated by reference to Exhibit 2.1 to CryoLife, Inc.'s Current Report on Form 8-K filed on April 15, 2011).*
- (d)(2) Support Agreement, dated as of March 28, 2011, by and between CryoLife, Inc., and certain shareholders of Cardiogenesis listed on Schedule A thereto (incorporated by reference to Exhibit 10.1 to Cardiogenesis Corporation's Current Report on Form 8-K filed on March 29, 2011). *
- (d)(3) Mutual Confidential Disclosure Agreement, dated October 6, 2009, by and between Cardiogenesis Corporation and CryoLife, Inc. *
- (d)(4) Mutual Confidential Disclosure Agreement, dated September 29, 2010, by and between Cardiogenesis Corporation and CryoLife, Inc.*

* Previously filed.



FOR IMMEDIATE RELEASE

CryoLife Media Contacts:

D. Ashley Lee
Executive Vice President, Chief Financial Officer and
Chief Operating Officer
Phone: 770-419-3355

Chris Mittendorf
Edelman
Phone: 212-704-8134

Cardiogenesis Media Contact:

Paul J. McCormick
Executive Chairman
Phone: 949-420-1827

CryoLife Completes Tender Offer for 49.9 Percent of the Outstanding Shares of Cardiogenesis Corporation

ATLANTA, GA and IRVINE, CA (May 3, 2011) – CryoLife, Inc. (NYSE: CRY), an implantable biological medical device and cardiovascular tissue processing company, today announced the completion of its tender offer, through its wholly owned subsidiary CL Falcon, Inc., for 49.9 percent of the outstanding shares of Cardiogenesis Corporation (“Cardiogenesis”) (OTCQB: CGCP). The tender offer expired at 12:00 midnight, Eastern Time, at the end of the day on Monday, May 2, 2011.

Based on information provided by Computershare Inc., the depository and paying agent for the tender offer, a total of 38,482,022 shares of Cardiogenesis’ common stock, representing approximately 82.6 percent of Cardiogenesis’ outstanding common stock, were validly tendered and not withdrawn in the tender offer. In addition, there are 318,892 shares subject to guaranteed delivery. Of those shares tendered, 23,221,166 shares of Cardiogenesis common stock, representing approximately 49.9 percent of Cardiogenesis’ outstanding common stock, were acquired in the tender offer. As of May 2, 2011, Cardiogenesis had 46,535,403 shares of common stock outstanding. CryoLife will pay an aggregate of approximately \$10,612,071 in cash, or \$0.457 per share less applicable withholdings, for the shares acquired in the tender offer.

1655 Roberts Boulevard, NW • Kennesaw, Georgia 30144
(770) 419-3355 Phone • (770) 426-0031 Fax • e-mail: info@cryolife.com
<http://www.cryolife.com>

As previously announced, CryoLife is seeking to acquire not more than 49.9 percent of the outstanding Cardiogenesis shares. As a result, the depository will apply a to be determined proration factor, representing the percentage of each tendering shareholder's shares that will be accepted in the Offer. The remaining shares will be returned to the shareholder.

CryoLife intends to acquire the remaining outstanding shares of Cardiogenesis through a merger. The consideration in the merger will also be \$0.457 per share, less applicable withholdings. Cardiogenesis plans to hold a special meeting of Cardiogenesis shareholders the week of May 16, 2011 to vote on the proposed merger. If more than 50 percent of the outstanding shares of Cardiogenesis, including those shares acquired by CryoLife in the tender offer, vote in favor of the merger, CryoLife and Cardiogenesis will move to complete the merger as soon as possible after the special meeting of Cardiogenesis shareholders. Upon completion of the merger, CryoLife expects that the Cardiogenesis shares will cease to be quoted on the OTCQB market.

A more detailed description of the Cardiogenesis Board of Directors' recommendation regarding the merger can be found in the Solicitation/Recommendation Statement on Schedule 14D-9 prepared by Cardiogenesis, which was mailed to Cardiogenesis stockholders and which was filed with the Securities and Exchange Commission (SEC) on April 5, 2011.

As a result of the successful completion of the tender offer, Cardiogenesis is canceling its previously scheduled investor conference call on May 4, 2011 at 5:00 p.m. Eastern time (2:00 p.m. Pacific time). Cardiogenesis plans to timely file its quarterly report on Form 10-Q detailing its first quarter 2011 operating results.

About CryoLife

Founded in 1984, CryoLife, Inc. is a leader in the processing and distribution of implantable living human tissues for use in cardiac and vascular surgeries throughout the U.S. and Canada. CryoLife's CryoValve® SG pulmonary heart valve, processed using CryoLife's proprietary SynerGraft® technology, has FDA 510(k) clearance for the replacement of diseased, damaged, malformed, or malfunctioning native or prosthetic pulmonary valves. CryoLife's CryoPatch® SG pulmonary cardiac patch has FDA 510(k) clearance for the repair or reconstruction of the right ventricular outflow tract (RVOT), which is a surgery commonly performed in children with congenital heart defects, such as Tetralogy of Fallot, Truncus Arteriosus, and Pulmonary Atresia. CryoPatch SG is distributed in three anatomic configurations: pulmonary hemi-artery, pulmonary trunk, and pulmonary branch. CryoLife's BioGlue® Surgical Adhesive is FDA approved as an adjunct to sutures and staples for use in adult patients in open surgical repair of large vessels. BioGlue is also CE marked in the European Community and approved in Canada and Australia for use in soft tissue repair and was recently approved in Japan for use in the repair of aortic dissections. CryoLife's BioFoam™ Surgical Matrix is CE marked in the European Community for use as an adjunct in the sealing of abdominal parenchymal tissues (liver and spleen) when cessation of bleeding by ligature or other conventional methods is ineffective or impractical. CryoLife distributes PerClot®, an absorbable powder hemostat, in the European Community.

For additional information about CryoLife, visit CryoLife's website, www.cryolife.com.

About Cardiogenesis Corporation

Cardiogenesis specializes in the treatment of cardiovascular disease and is a leader in devices that treat severe angina. Its market leading YAG laser system and single use fiber-optic delivery systems are used to perform an FDA-cleared surgical procedure known as Transmyocardial Revascularization (TMR).

For more information on Cardiogenesis and its products, please visit its website at www.cardiogenesis.com.

Forward Looking Statements

Statements made in this press release that look forward in time or that express CryoLife's management's beliefs, expectations or hopes are forward-looking statements. Such forward-looking statements reflect the views of management at the time such statements are made and are subject to a number of risks, uncertainties, estimates, and assumptions that may cause actual results to differ materially from current expectations. These statements include those regarding the timing of various elements of the transaction, including a special meeting of Cardiogenesis shareholders and CryoLife's acquisition of the remaining outstanding shares of Cardiogenesis through a merger, and our expectation that, upon completion of the merger, Cardiogenesis shares will cease to be quoted on the OTCQB market. These risks and uncertainties related to the transaction with Cardiogenesis include that the special meeting of Cardiogenesis shareholders, our acquisition of the remaining outstanding shares of Cardiogenesis, and the merger may not be completed within our anticipated time frame, if at all, and a sufficient number of Cardiogenesis shareholders may not choose to vote for the proposed merger. The special meeting of Cardiogenesis shareholders may be delayed because of circumstances beyond our control. Two purported class action lawsuits have been filed by Cardiogenesis shareholders challenging the merger. Also, competing offers may be made for Cardiogenesis, various closing conditions for the transaction may not be satisfied or waived, including that a governmental entity may prohibit or delay the transaction, and the effects of disruption from the transaction may make it more difficult to maintain relationships with employees, customers, business partners or governmental entities. Furthermore, CryoLife's ability to fully realize the anticipated benefits of the transaction with Cardiogenesis may be materially adversely impacted if the integration of Cardiogenesis' business with CryoLife is slower than expected or unsuccessful, or if the transaction and subsequent efforts to integrate Cardiogenesis' business with CryoLife distracts CryoLife's management team from the other facets of CryoLife's business. The treatment of Cardiogenesis shares on the OTCQB market may be impacted by factors beyond the control of CryoLife. Forward-looking statements in this press release should be evaluated together with the risk factors detailed in CryoLife's Securities and Exchange Commission filings, including its Form 10-K filing for the year ended December 31, 2010, Form 10-Q filing for the quarter ended March 31, 2011, and CryoLife's other SEC filings. CryoLife does not undertake to update its forward-looking statements.

Additional Information about the Merger and Where to Find It

In connection with the potential merger, Cardiogenesis Corporation has filed a preliminary proxy statement with the Securities and Exchange Commission. Additionally, Cardiogenesis Corporation will file other relevant materials with the Securities and Exchange Commission in connection with the proposed acquisition of Cardiogenesis Corporation by CryoLife, Inc. pursuant to the terms of an Amended and Restated Agreement and Plan of Merger by and among Cardiogenesis Corporation, CryoLife, Inc., and CL Falcon, Inc. a wholly-owned subsidiary of CryoLife, Inc. The materials filed by Cardiogenesis Corporation with the Securities and Exchange Commission may be obtained free of charge at the Securities and Exchange Commission's web site at www.sec.gov. Investors and shareholders also may obtain free copies of the proxy statement from Cardiogenesis Corporation by contacting Cardiogenesis Corporation Investor Relations at 11 Musick, Irvine, CA, 92618, telephone number (949) 420-1827 or IR@Cardiogenesis.com. Investors and security holders of Cardiogenesis Corporation are urged to read the definitive proxy statement and the other relevant materials when they become available before making any voting or investment decision with respect to the proposed merger because they will contain important information about the merger and the parties to the merger.

Cardiogenesis Corporation and its respective directors, executive officers and other members of their management and employees, under the Securities and Exchange Commission rules, may be deemed to be participants in the solicitation of proxies of Cardiogenesis Corporation shareholders in connection with the proposed merger. Investors and security holders may obtain more detailed information regarding the names, affiliations and interests of certain of Cardiogenesis' executive officers and directors in the solicitation by reading Cardiogenesis Corporation's proxy statement for its 2010 annual meeting of shareholders, the Annual Report on Form 10-K for the fiscal year ended December 31, 2010, and the proxy statement and other relevant materials which may be filed with the Securities and Exchange Commission in connection with the merger when and if they become available. Information concerning the interests of Cardiogenesis Corporation's participants in the solicitation, which may, in some cases, be different from those of Cardiogenesis Corporation's shareholders generally, is set forth in the preliminary proxy statement relating to the merger. Additional information regarding Cardiogenesis Corporation's directors and executive officers is also included in Cardiogenesis Corporation's proxy statement for its 2010 annual meeting of shareholders.

