

CARDIOGENESIS CORP /CA

Form 10KSB/A

April 30, 2007

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

**Form 10-KSB/A
Amendment No. 1
ANNUAL REPORT UNDER SECTION 13 OR 15(d)
OF THE SECURITIES EXCHANGE ACT OF 1934
For the fiscal year ended December 31, 2006
Commission file number: 0-28288**

Cardiogenesis Corporation
(Name of small business issuer in its charter)

California
*(State or other jurisdiction of incorporation or
organization)*

77-0223740
(I.R.S. Employer Identification Number)

11 Musick, Irvine, CA
(Address of principal executive offices)

92618
Zip Code

(949) 420-1800
(Issuer's telephone number)

Securities registered under Section 12(g) of the Exchange Act:
Common Stock, no par value
(Title of Class)

Check whether the issuer (1) filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the past 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Check if there is no disclosure of delinquent filers in response to Item 405 of Regulation S-B contained in this form, and no disclosure will be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-KSB or any amendment to this Form 10-KSB.

Indicated by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act).

Yes No

State issuer's revenues for its most recent fiscal year: \$17,117,000

State the aggregate market value of the voting and non-voting common equity held by non-affiliates of the issuer computed by reference to the price at which the common equity was sold, or the average bid and asked price of such common equity, as of a specified date within the past 60 days: \$11,822,638 as of April 19, 2007.

State the number of shares outstanding of each of the issuer's classes of equity as of the latest practicable date: 45,273,701 shares of common stock, no par value, outstanding as of April 24, 2007.

DOCUMENTS INCORPORATED BY REFERENCE:

Certain portions of the following documents are incorporated by reference into Part III of this Form 10-KSB: None

Transitional Small Business Disclosure Format YES NO

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EXPLANATORY NOTE

The Registrant is filing this Amendment No. 1 to its Annual Report on Form 10-KSB for the fiscal year ended December 31, 2006 solely for the purpose of providing the information required by Items 9, 10, 11, 12, and 14 of Part III of Form 10-KSB. Such information was to be incorporated by reference from the Registrant's definitive proxy statement in connection with the Registrant's 2007 Annual Meeting of Shareholders. However, since the date of the original filing of the Form 10-KSB, the Company has determined that it will not file its definitive proxy statement within 120 days following the end of its fiscal year and, in accordance with SEC rules, must file an amendment to its Form 10-KSB to include the disclosures required by Part III of Form 10-KSB. In addition, pursuant to Rule 12b-15 promulgated under the Securities Exchange Act of 1934, as amended, this Amendment No. 1 to Annual Report on Form 10-KSB includes currently dated certifications from the Company's President and Chief Financial Officer, as required by Sections 302 and 906 of the Sarbanes-Oxley Act of 2002. The certifications of the Company's President and Chief Financial Officer are attached to this Amendment No. 1 to Form 10-KSB as Exhibits 31.1, 31.2 and 32.1. Except for the foregoing amended information, this Amendment No. 1 to Form 10-KSB continues to speak as of the date of the original filing of the Form 10-KSB, and the Company has not updated the disclosures contained herein to reflect events that occurred at a later date.

Table of Contents**PART III****Item 9. Directors, Executive Officers, Promoters, Control Persons and Corporate Governance; Compliance with Section 16(a) of the Exchange Act.****Executive Officers**

Officers serve at the discretion of our Board of Directors and are appointed annually. The following table sets forth the name, age and position of each of our executive officers as of April 19, 2007. Also provided below is a brief description of the business experience of each executive officer during the past five years:

| Name | Age | Position |
|--------------------|------------|---|
| Richard P. Lanigan | 48 | President |
| William R. Abbott | 50 | Senior Vice President, Chief Financial Officer, Secretary and Treasurer |
| Charles J. Scarano | 45 | Senior Vice President of Worldwide Marketing |
| Gerard A. Arthur | 48 | Senior Vice President of Operations |
| John P. McIntyre | 41 | Vice President of Scientific and Regulatory Affairs |

Richard P. Lanigan has been our President since November 2006. Prior to November 2006, Mr. Lanigan served in a variety of different capacities. From November 2005 to October 2006, Mr. Lanigan served as the Senior Vice President of Operations. From November 2003 to October 2005, Mr. Lanigan was Senior Vice President of Marketing. From March 2001 to October 2003, Mr. Lanigan was Vice President of Government Affairs and Business Development. From March 2000 to February 2001, Mr. Lanigan served as Vice President of Sales and Marketing and from 1997 to 2000 he was the Director of Marketing. From 1992 to 1997, Mr. Lanigan served in various positions, most recently Marketing Manager, at Stryker Endoscopy. From 1987 to 1992, Mr. Lanigan served in Manufacturing and Operations management at Raychem Corporation. From 1981 to 1987, he served in the U.S. Navy where he completed six years of service as Lieutenant in the Supply Corps. Mr. Lanigan has a Bachelor of Business Administration from the University of Notre Dame and a Masters of Science in Systems Management from the University of Southern California.

William R. Abbott joined us as Senior Vice President, Chief Financial Officer, Secretary and Treasurer in May 2006. From 1997 to 2005, Mr. Abbott served in several financial management positions at Newport Corporation most recently as Vice President of Finance and Treasurer. From 1993 to 1997, Mr. Abbott served as Vice President and Corporate Controller of Amcor Sunclipse North America. From 1991 to 1992, Abbott served as Director of Financial Planning for the Western Division of Coca-Cola Enterprises, Inc. From 1988 to 1991, Abbott was Controller of McKesson Water Products Company. Prior to that, Abbott spent 6 years in management positions at PepsiCo, Inc. and began his career with PricewaterhouseCoopers, LLP. Mr. Abbott has a Bachelor of Science degree in accounting from Fairfield University and a Masters in Business Administration degree from Pepperdine University.

Charles J. Scarano has been our Senior Vice President of Worldwide Marketing since November 2005. From July through December 2006 he was also responsible for Business Development. From January 2005 to November 2005, Mr. Scarano was the Vice President, General Manager of the International Business Unit. From June 2004 to January 2005 Mr. Scarano was the Director of Marketing. Prior to joining Cardiogenesis, Mr. Scarano served as Executive Vice President of OroPro, Inc., directing the business development, branding and strategic marketing efforts. Before OroPro he was Vice President of Marketing at Optimize, Inc. and prior to that he served as Vice President of Sales for Gabriel Medical. Prior to joining Gabriel Medical, Mr. Scarano spent several years with

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Stryker Endoscopy and Allergan Pharmaceuticals in sales and marketing management positions. Mr. Scarano received his B.A in Communications from Arizona State University.

Gerard A. Arthur was promoted to the position of Senior Vice President of Operations in January 2007. Prior to January 2007, Mr. Arthur had served as Vice President, General Manager of the Worldwide Service Division since December 2003. From 1993 to December 2003, Mr. Arthur was Director of Worldwide Service. Prior to Cardiogenesis, from 1991 to 1993, Mr. Arthur served as Service Manager at Intelligent Surgical Lasers, Inc. From 1990 to 1991, he served as Manager of Laser Services at National Instrument Service Corporation. From 1986 to 1990, he served as Service Manager for Medical Lasers at Carl Zeiss, Inc. Mr. Arthur has worked in the medical laser field for over twenty years. He is a graduate of the School of Marine Radio & Radar, Limerick, Ireland.

John P. McIntyre has been our Vice President of Scientific and Regulatory Affairs since November 2005. From March 2005 to November 2005, Mr. McIntyre served as Vice President of Research and Development. From January 2003 to March 2005, Mr. McIntyre was our Director of Product Development and Quality. From February 2002 to January 2003, Mr. McIntyre was our Senior Manager of Quality and Engineering. Mr. McIntyre has over 15 years experience in the medical device industry. Prior to joining Cardiogenesis, Mr. McIntyre worked in the Cardio Vascular and Vascular Divisions of Edwards Lifesciences Corporation (formerly Baxter Healthcare Corporation) and Innercool Therapies, Inc. in positions of increasing responsibility for both Research and Development Engineering and Regulatory Affairs. Mr. McIntyre received his B.S. in Bioengineering, graduating Magna Cum Laude from University of California-San Diego and his M.S. in Biomedical Engineering from University of California-Davis as a National Science Foundation Graduate Research Fellowship Stipend Winner.

Board of Directors

All of our directors will serve until the next annual meeting of stockholders and until their successors are elected and qualified, or until their earlier death, retirement, resignation or removal. There are no family relationships among directors or executive officers. We currently do not have a nominating committee of the Board of Directors, or any committee performing similar functions. Nominees for election as a director are selected by the Board of Directors but the Board may receive input or suggestions as to nominees from its corporate governance committee.

The following table sets forth the name, age and position of each of the members of our Board of Directors as of April 19, 2007. Also provided below is a brief description of the business experience of each director during the past five years and an indication of directorships held by each director in other companies subject to the reporting requirements under the Federal securities laws:

| Name | Age | Position |
|-------------------------|-----|------------------------------------|
| Gary S. Allen, M.D. | 41 | Director |
| Paul J. McCormick | 53 | Director |
| Robert L. Mortensen | 72 | Director |
| Marvin J. Slepian, M.D. | 51 | Chief Scientific Officer, Director |
| Gregory D. Waller | 57 | Director |

Gary S. Allen, MD became a member of the Board in October 2005. Since 2004, Dr. Allen has been affiliated with Cardiovascular Surgeons, P.A. of Orlando, Florida and has served as the Chief of Cardiothoracic Surgery at Osceola Regional Medical Center in Kissimmee, Florida. He earned his Bachelor's Degree in Biochemistry from Skidmore College, his Medical Degree from Albany Medical College and completed his general surgery training and residency at the University of Texas Healthcare Sciences Center in Houston, Texas. Dr. Allen completed a National Institutes of Health (NIH) granted Post Doctoral fellowship at the University of Utah Artificial Heart Research Laboratory) and his cardiothoracic surgery fellowship at the University of Utah, Salt Lake City. His professional affiliations include the Society of Thoracic Surgeons, the Florida Society of Thoracic Surgeons, the International Society for Minimally Invasive Cardiac Surgery and the Southern Thoracic Society. Dr. Allen is also a member of the Scientific Advisory Boards of ESTECH and Alsius Corporation.

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Paul J. McCormick was appointed to our Board of Directors in April 2007. Mr. McCormick is currently President and Chief Executive Officer of Endologix, Inc., a developer and manufacturer of minimally invasive treatments for cardiovascular disease and a reporting company under the Securities Exchange Act of 1934, and has served on its Board of Directors since May 2002. Mr. McCormick joined the former Endologix in January 1998, prior to its merger with Radiance Medical Systems, Inc. in May 2002, as Vice President of Sales and Marketing, and served as President and Chief Operating Officer from January 2001 until the merger in May 2002. He then served in the same position with Endologix until January 2003 when he became President and Chief Executive Officer. Previously, he held various sales and marketing positions at Progressive Angioplasty Systems, Heart Technology, Trimedyn Inc., and United States Surgical Corporation.

Robert L. Mortensen has served as one of our directors since April 1992. In May 2006, Mr. Mortensen became an investor in and a member of the Board of Directors of Mobius Photonics, a start up company focused on development of a fiber laser system for drilling precise micro holes for electronic manufacturing applications. Mr. Mortensen was also a member of the Board of Directors of Lightwave Electronics Corporation until May 2005 when the Company was acquired by JDS Uniphase Corporation. In 1984, Mr. Mortensen founded Lightwave Electronics Corporation, a solid-state laser company, and until his retirement in 2001 was either its President or Chairman of the Board. Mr. Mortensen holds an M.B.A. from Harvard University.

Marvin J. Slepian, M.D. became a member of our Board of Directors in December 2003. Since 1991, Dr. Slepian has taught medicine at the University of Arizona and currently serves as a Clinical Professor of Medicine and Director of Interventional Cardiology at the Sarver Heart Center at the University of Arizona. Dr. Slepian is a Co-Founder, Chairman, Chief Scientific and Medical Officer of SynCardia Systems, Inc., a privately-held company that manufactures a complete artificial heart for patients with end-stage heart disease. He was also one of the founders of Focal, Inc., a publicly-traded company that developed novel polymer-based therapeutics for surgery and angioplasty, including the world's first synthetic tissue sealant. Focal Inc. was acquired by Genzyme, Inc. in April 2001. Dr. Slepian has served as the Company's Chief Scientific Officer since August 2004 but is not an employee of the Company. Dr. Slepian received a Bachelor of Arts degree from Princeton University in 1977 and a Medical Doctor degree from the University of Cincinnati College of Medicine in 1981. He did his residency in internal medicine at NYU School of Medicine/ Bellevue Hospital where he was also chief resident. In addition, Dr. Slepian was a Clinical and Research Fellow in the Cardiology Division of the John Hopkins University School of Medicine and participated in a second fellowship in interventional Cardiology at the Cleveland Clinic Foundation.

Gregory D. Waller was appointed to our Board of Directors in April 2007. Mr. Waller served as Vice President-Finance, Chief Financial Officer and Treasurer of Sybron Dental Specialties, Inc., a manufacturer and marketer of consumable dental products, from August 1993 to May 2005 and was formerly the Vice President and Treasurer of Kerr, Ormco and Metrex. Mr. Waller joined Ormco in December 1980 as Vice President and Controller and served as Vice President of Kerr European Operations from July 1989 to August 1993. Mr. Waller began his career with American Hospital Supply Corporation, in the Harleco and McGaw Divisions before transferring to the Ormco Division, which was subsequently acquired by Sybron. Mr. Waller received both a BA in political science and an MBA with a concentration in accounting from California State University at Fullerton. Mr. Waller also currently serves as a member on the Board of Directors and as the audit committee chairman for Clariant Inc., Endologix, Inc. and SenoRx Inc., each of which is a reporting company under the Securities Exchange Act of 1934, as well as for privately held Alsus Corporation, and Vivometrics, Inc.

Audit Committee Financial Expert

During 2006, the Board of Directors did not have a separate audit committee and the entire Board of Directors served in such capacity. The Company did not have an audit committee financial expert on its Board during 2006. Mr. Waller, who was appointed to the Board in April 2007, has been determined by the Board of Directors to be an audit committee financial expert as defined by the Securities and Exchange Commission. Although Cardiogenesis is not currently subject to NASD rules regarding director independence, the Board has determined that Mr. Waller is an independent director as such term is defined in NASD Rule 4200(a)(15).

Table of Contents**Section 16(a) Beneficial Ownership Reporting Compliance**

Section 16(a) of the Securities Exchange Act of 1934 requires our executive officers and directors, and persons who beneficially own more than ten percent of a registered class of our equity securities to file reports of ownership and changes in ownership with the Securities and Exchange Commission (SEC) Executive officers, directors and greater-than-ten-percent shareholders are required by SEC regulation to furnish us with copies of all Section 16(a) forms they file. Based solely on our review of the copies of such forms received by us or written representations from certain reporting persons, we believe that, except as indicated below, all of our executive officers, directors and ten percent shareholders complied with all applicable filing requirements during 2006, except as disclosed herein.

William R. Abbott failed to timely file a Form 3 as a result of his appointment as Senior Vice President, Chief Financial Officer and his related grant of an option to purchase 100,000 shares of common stock on May 15, 2006. Mr. Abbott subsequently filed the requisite Form 3 on December 1, 2006.

Gary S. Allen, M.D. failed to timely file a Form 4 with respect to the acquisition of 4,500 shares of common stock on April 17, 2006. Dr. Allen subsequently filed the requisite Form 4 on April 28, 2006.

Henry R. Rossell, a former officer of the Company, failed to timely file a Form 4 with respect to the grants of an option to purchase 500 shares of common stock on March 15, 2006, 500 shares of common stock on March 31, 2006, 500 shares on May 31, 2006, and 500 shares on June 12, 2006. Mr. Rossell subsequently filed the requisite Form 4 on December 1, 2006.

Code of Ethics

Cardiogenesis has a Code of Business Conduct to promote honest and ethical conduct of our business, professional and personal relationships. The Code of Business Conduct covers all officers, directors, and employees and is available on our website at <http://www.cardiogenesis.com/ethics.php>.

Item 10. Director and Executive Officer Compensation.**Executive Officer Compensation**

The following table sets forth certain information concerning the compensation for the past fiscal year of (i) each person who served as our principal executive officer during 2006, (ii) the other two most highly compensated executive officers who were serving as executive officers at the end of 2006, and (iii) two additional individuals who served as executive officers during 2006 and who would have been included in (ii) above had they been serving in such capacity at the end of 2006.

Summary Compensation Table

| Name and Principal Position | Fiscal Year | Salary (\$) | Bonus (\$) | Option Awards (\$) (1) | All Other Compensation (\$) | Total (\$) |
|---|--------------------|--------------------|-------------------|-----------------------------------|------------------------------------|-------------------|
| Joseph R. Kletzel, II (2) Former Interim Chief Executive Officer, Interim Chief Operating Officer, and Executive Chairman of the Board | 2006 | \$ 141,250 | | \$ 11,250 | \$ 846 | \$ 153,346 |
| Richard P. Lanigan (3) President | 2006 | \$ 264,688 | | \$ 14,703 | \$ 1,168 | \$ 280,559 |

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| Name and Principal Position | Fiscal Year | Salary (\$) | Bonus (\$) | Option Awards (\$)(1) | All Other Compensation (\$) | Total (\$) |
|--|--------------------|--------------------|-------------------|------------------------------|------------------------------------|-------------------|
| Michael J. Quinn (4) Former Chief Executive Officer, President, Chairman of the Board | 2006 | \$214,043 | | \$140,501 | \$136,254 | \$490,798 |
| Gerard A. Arthur (3) Senior Vice President of Operations | 2006 | \$188,153 | | \$5,464 | \$708 | \$194,325 |
| Larry J. Czapla (5) Former Senior Vice President of Worldwide Sales | 2006 | \$211,858 | | \$25,889 | \$33,504 | \$271,251 |
| Henry R. Rossell (6) Former Senior Vice President of Domestic Sales | 2006 | \$301,745 | | \$8,090 | \$26,360 | \$336,195 |
| Charles J. Scarano (3) Senior Vice President of Worldwide Marketing | 2006 | \$180,000 | | \$16,292 | \$826 | \$197,118 |

(1) This column reflects the dollar amount recognized for financial statement reporting purposes with respect to the 2006 fiscal year for the fair value of stock options granted to each of the named executives, in 2006 as well as prior years, in accordance with SFAS 123R. Pursuant to SEC rules, the amounts shown exclude the impact of estimated forfeitures related to service-based

vesting conditions. These amounts reflect the Company's accounting expense for these awards, and do not correspond to the actual value that will be recognized by the named executive.

- (2) Mr. Kletzel died on January 15, 2007.

Mr. Kletzel's Salary includes \$125,000 related to compensation paid to him while he served as interim Chief Operating Officer from May to July 2006 and also as interim Chief Executive Officer from July to November 2006.

All Other Compensation represents life insurance premiums.

- (3) All Other Compensation represents life insurance premiums.

- (4) Mr. Quinn's employment was terminated by the Company on July 12, 2006. Mr. Quinn's

Option Awards reflect stock-based compensation expense in 2006, excluding the impact of estimated forfeitures, of \$128,583 related to the accelerated vesting of approximately 208,000 shares and modification of the original terms for all the options that he was allowed to retain.

Mr. Quinn's Other Compensation includes \$45,342 in accrued vacation pay owed to him upon termination of his employment, \$11,450 related to reimbursed country club membership dues and \$758 in personal life insurance premiums. Other Compensation also includes \$27,704 representing the portion paid in 2006 to Mr. Quinn for severance benefits, which was part of a total severance benefits payable to Mr. Quinn

totaling
approximately
\$500,000
payable through
October 2009. In
addition, Other
Compensation
also includes
\$51,000 paid
directly to
Mr. Quinn's
counsel as
attorney's fees.
See, Payments
upon
Termination or
Change of
Control.

- (5) Mr. Czapla's
employment was
terminated by the
Company on
July 13, 2006. In
2006, Mr. Czapla
received an
award of 150,000
options at an
option price of
\$0.47 vesting
over 12 months
and an award of
50,000 options at
an option price
of \$0.50 vesting
over 36 months.
All of these
options expired
unexercised in
accordance with
their terms
90 days
following the
termination of
his employment.
Mr. Czapla's
Other
Compensation
includes \$19,231
related to
severance

payments paid to him in 2006, \$7,500 related to an auto allowance, \$6,250 in accrued vacation pay owed to him upon termination of his employment, and \$523 in life insurance premiums.

- (6) Mr. Rossell's employment was terminated by the Company on November 30, 2006. In 2006, Mr. Rossell received the following option grants, each with one year from grant date vesting terms: 3,750 options at an option price of \$0.44, 500 options at an option price of \$0.47, 500 options at an option price of \$0.58, 500 options at an option price of \$0.25 and 500 options at an option price of \$0.38. All of these options expired unexercised in accordance with their terms 90 days following the termination of

his employment.
Mr. Rossell s
Other
Compensation
includes \$21,538
related to
vacation

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pay owed to him upon termination of his employment, \$4,000 related to an auto allowance, and \$822 in life insurance premiums.

Option Grants in Fiscal Year 2006

The Company has not granted any stock or equity incentive plan awards and has only granted options to purchase shares of common stock. The following table sets forth information regarding outstanding shares of our common stock underlying both exercisable and unexercisable stock options held by each named executive officer in the Summary Compensation Table above and the exercise prices and expiration dates thereof as of December 31, 2006.

Outstanding Equity Awards at Fiscal Year-End

| Name | Number of Securities Underlying | | Equity Incentive Plan Awards: Number of Securities Underlying | Option Exercise Price | Option Expiration Date |
|--------------------|---------------------------------|-------------------------|---|-----------------------|------------------------|
| | Unexercised Options (#) | Unexercised Options (#) | Unexercised Unearned Options (#) | (\$) | |
| Richard P. Lanigan | Exercisable | Unexercisable | | | |
| | 7,500 | | | \$ 8.75 | 1/17/2007 |
| | 6,500 | | | \$ 6.94 | 2/20/2008 |
| | 4,000 | | | \$ 10.75 | 3/13/2008 |
| | 5,000 | | | \$ 7.44 | 8/10/2008 |
| | 10,548 | | | \$ 8.75 | 5/4/2009 |
| | 1,452 | | | \$ 8.75 | 5/4/2009 |
| | 17,533 | | | \$ 6.06 | 12/15/2009 |
| | 3,467 | | | \$ 6.06 | 12/15/2009 |
| | 12,417 | | | \$ 6.56 | 4/11/2010 |
| | 12,583 | | | \$ 6.56 | 4/11/2010 |
| | 7,644 | | | \$ 1.38 | 11/28/2010 |
| | 17,356 | | | \$ 1.38 | 11/28/2010 |
| | 11,806 | | | \$ 2.57 | 5/14/2011 |
| | 13,194 | | | \$ 2.57 | 5/14/2011 |
| | 13,890 | | | \$ 1.01 | 8/2/2011 |
| 11,110 | | | \$ 1.01 | 8/2/2011 | |
| 22,917 | | | \$ 0.91 | 5/31/2012 | |
| 14,583 | | | \$ 0.91 | 5/31/2012 | |
| 74,332 | | | \$ 0.32 | 1/7/2013 | |

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| | | | | |
|----------------------|---------|-----------|---------|------------|
| | 58,802 | | \$ 0.32 | 1/7/2013 |
| | 83,333 | | \$ 0.70 | 6/24/2013 |
| | 16,667 | | \$ 0.70 | 6/24/2013 |
| | 50,000 | | \$ 1.03 | 2/26/2014 |
| | 75,000 | | \$ 0.54 | 1/14/2015 |
| | 25,000 | 75,000(1) | \$ 0.50 | 3/21/2016 |
| Michael J. Quinn (2) | 89,008 | | \$ 0.32 | 10/12/2009 |
| | 150,000 | | \$ 0.70 | 10/12/2009 |
| | 200,000 | | \$ 0.54 | 10/12/2009 |
| | 250,000 | | \$ 0.50 | 10/12/2009 |
| Gerard A. Arthur | 708 | | \$ 8.00 | 10/23/2007 |
| | 1,000 | | \$ 8.75 | 5/4/2009 |
| | 4,500 | | \$ 6.06 | 12/15/2009 |
| | 1,000 | | \$ 4.00 | 7/11/2010 |
| | 11,000 | | \$ 2.89 | 6/15/2011 |

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| Name | Number of Securities Underlying | Number of Securities Underlying | Equity Incentive Plan Awards: Number of Securities Underlying | Option Exercise Price | Option Expiration |
|----------------------|---------------------------------|---------------------------------|---|-----------------------|-------------------|
| | Unexercised Options (#) | Unexercised Options (#) | Unexercised Unearned Options (#) | (\$) | Date |
| | 7,500 | | | \$ 1.19 | 9/5/2011 |
| | 5,000 | | | \$ 0.70 | 1/18/2012 |
| | 10,000 | | | \$ 0.84 | 6/13/2012 |
| | 65,849 | | | \$ 0.32 | 1/7/2013 |
| | 10,000 | | | \$ 0.70 | 6/24/2013 |
| | 20,000 | | | \$ 1.03 | 2/26/2014 |
| | 40,000 | | | \$ 0.54 | 1/14/2015 |
| | 12,500 | 37,500(1) | | \$ 0.50 | 3/21/2016 |
| Henry R. Rossell (3) | 100,000 | | | \$ 0.32 | 1/7/2013 |
| | 50,000 | | | \$ 0.70 | 6/24/2013 |
| | 50,000 | | | \$ 1.03 | 2/26/2014 |
| | 75,000 | | | \$ 0.54 | 1/14/2015 |

(1) Options vest monthly over a 36 month period following the date of grant.

(2) On October 24, 2006, the Company and Michael J. Quinn entered into a settlement agreement pursuant to which the parties agreed to settle certain disputes between them relating to the termination of

Mr. Quinn's employment. In accordance with the agreement, Mr. Quinn was entitled to retain previously issued stock options. In 2006, Mr. Quinn was awarded options to purchase 250,000 shares with the original monthly vesting term over a 36 month period expiring on 3/21/2016. However, based on the settlement agreement, on October 12, 2006, these options were fully vested and the expiration date was changed to 10/12/2009. See, Payments upon Termination or Change of Control.

- (3) Henry R. Rossell's employment was terminated on November 30, 2006, and all options granted to him expired 90 days following the date of his termination in

accordance with
their terms.

Mr. Rossell did
not exercise any
of these options
prior to
cancellation.

Employment Contracts of Executive Officers; Payments Upon Termination or Change of Control

None of the named executive officers have employment agreements with us currently and none of them have entered into any agreement or arrangement that entitles them to the payment of benefits if their employment is terminated, including termination following a change in control.

Prior to his termination by us in July 2006, Michael J. Quinn was a party to an employment agreement. Pursuant to the terms of his employment agreement, Mr. Quinn was eligible to receive his base salary and certain other benefits, including (i) an annual bonus determined by the Board of Directors, (ii) options or other rights to acquire our common stock, under terms and conditions determined by the Board of Directors. Under the terms of such employment contract, to the extent Mr. Quinn was determined to have been terminated without cause, he would have been entitled to receive certain severance benefits which include payment of annual salary and continuation of insurance benefits for the remainder of his employment term or three years (whichever is longer).

On July 12, 2006, we terminated Michael Quinn as its Chairman, Chief Executive Officer and President in accordance with the terms of his employment agreement. At the time of termination, Mr. Quinn stated that he intended to bring claims against us relating to his termination, including claims for payment of severance he claimed was owed to him under the terms of his employment agreement. In October 2006, we entered into a settlement

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agreement with Mr. Quinn pursuant to which we agreed to settle certain disputes between them relating to Mr. Quinn's termination from employment. Pursuant to the terms of the settlement, we agreed to pay Mr. Quinn a total of approximately \$500,000 in equal bi-monthly installments over a period of three years and also paid approximately \$51,000 to Mr. Quinn's counsel as attorney's fees. Mr. Quinn was also allowed to retain 689,008 previously issued stock options having the following exercise prices:

- 89,008 shares at \$0.32 per share
- 150,000 shares at \$0.70 per share
- 200,000 shares at \$0.54 per share
- 250,000 shares at \$0.50 per share

The exercise period of these options has been extended so that each option shall terminate on October 12, 2009. We also agreed that Mr. Quinn would be entitled to statutory indemnification and any indemnification required by our bylaws relating to his service on the Board of Directors of the Company.

Director Compensation

Prior to January 1, 2007, for serving on the Board of Directors, non-employee directors received fees of \$2,500 per board meeting and \$500 per committee meeting, provided such committee meeting did not occur on the same day as a board meeting.

As of January 1, 2007, the compensation payable to each non-employee director changed as follows. Each non-employee director will receive an annual retainer of \$12,000 (payable quarterly) and a per meeting fee of \$2,500 for each regularly scheduled quarterly meeting of the Board of Directors attended in person by such director as well as reimbursement for travel expenses associated with attendance at any such meeting.

In addition, the chairmen of our Audit Committee, Compensation Committee, and Corporate Governance Committee will receive an additional annual retainer of \$5,000, \$2,500 and \$2,000 per year, respectively (payable quarterly). Members of the Audit Committee other than the chairman will receive an additional annual retainer of \$2,500 (payable quarterly).

As of April 1, 2007, each member of our Audit Committee, Compensation Committee and Corporate Governance Committee will receive a per meeting fee of \$1,000 for each regularly scheduled separate meeting of such Committee attended by such person or telephonically.

In addition, pursuant to the terms of our 1996 Director Stock Option Plan, each non-employee director receives an option to purchase 22,500 shares of our common stock upon his election to the Board of Directors and subsequent option grants of 7,500 shares upon his re-election each year (provided that such re-election is at least six months after the date of initial election to the Board of Directors). The exercise price is 100% of the closing price of our common stock on the date prior to the grant date. Initial option grants vest as to one-third of the shares on each yearly anniversary of the grant date until fully vested. Subsequent option grants vest in full on the first anniversary of the date of grant. If the non-employee director ceases to serve as a director for any reason, vesting shall cease as of the date of such termination and shall be exercisable for 60 days following termination except in the case of death or disability in which case the option shall be exercisable for a period of 12 months following termination as a director.

Directors who are employees do not receive any additional compensation for their service on the Board.

The following table sets forth information concerning the compensation of our non-employee directors during 2006:

Table of Contents**Director Compensation**

| Name | Fees Earned Or Paid In Cash | Option Awards (\$) | All Other Compensation (\$) | Total (\$) |
|------------------------|--|-----------------------------------|--|-----------------------|
| Gary S. Allen, M.D. | \$ 17,000 | \$4,550 | \$ 51,000(1) | \$72,550 |
| Paul J. McCormick (2) | | | | |
| Robert L. Mortensen | \$ 16,500 | \$1,531 | | \$18,031 |
| Gregory D. Waller (3) | | | | |
| Marvin J. Slepian, M.D | \$ 17,000 | \$3,800 | | \$20,800 |

(1) Represents fees we paid Gary S. Allen, M.D. for his consulting services and involvement in our TMR and Pearl studies.

(2) On April 18, 2007, Paul J. McCormick was elected to serve as a Director and therefore, he did not receive any compensation during 2006.

(3) On April 1, 2007, Gregory D. Waller was elected to serve as a Director and therefore, he did not receive any compensation during 2006.

Table of Contents**Item 11. Security Ownership of Certain Beneficial Owners and Management and Related Shareholder Matters.
SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT**

The table below sets forth information known to us regarding the beneficial ownership of our common stock as of April 19, 2007; by each of the following:

each person known to us to be the beneficial owner of more than 5% of our outstanding common stock;

each named executive officer;

each of our directors; and

all executive officers and directors as a group.

Beneficial ownership is determined in accordance with rules of the Securities and Exchange Commission, and generally includes voting power and/or investment power with respect to securities. Shares of common stock subject to options currently exercisable or exercisable within sixty days of the date of this prospectus are deemed outstanding for purposes of computing the beneficial ownership by the person holding such options, but are not deemed outstanding for purposes of computing the percentage beneficially owned by any other person. Except as otherwise noted, the persons or entities named have sole voting and investment power with respect to all shares shown as beneficially owned by them. Unless otherwise indicated, the principal address of each of the stockholders below is Cardiogenesis Corporation, 11 Musick, Irvine, California 92618.

| Name and Address of Beneficial Owner | Shares of Common Stock | |
|---|------------------------|---|
| | Number | Beneficially Owned(1) Percentage Ownership(2) |
| 5% Shareholders: | | |
| Perkins Capital Management, Inc. (3) 730 East Lake Street Wayzata, MN 55391 | 6,342,550 | 14.0% |
| Non-Employee Directors: | | |
| Gary S. Allen, M.D.(4) | 430,525 | * |
| Paul J. McCormick (5) | 159,500 | * |
| Robert L. Mortensen (6) | 183,696 | * |
| Marvin J. Slepian, M.D. (7) | 137,500 | * |
| Gregory D. Waller (8) | | |
| Named Executive Officers: | | |
| Richard P. Lanigan (9) | 666,788 | 1.5% |
| Michael J. Quinn (10) | 1,091,658 | 2.4% |
| Gerard A. Arthur (11) | 201,401 | * |
| Charles J. Scarano (12) | 115,972 | * |
| All directors and executive officers as a group (14 persons)(13) | 3,250,842 | 6.9% |

* Less than 1%.

(1) Except as otherwise indicated and subject to applicable community

property and similar laws, the table assumes that each named owner has the sole voting and investment power with respect to such owner's shares (other than shares subject to options). Amount shares beneficially owned includes shares which are subject to options that are currently, or within sixty days following April 19, 2007, will be, exercisable.

- (2) Percentage ownership is based on 45,273,701 shares of Common Stock outstanding as of April 19, 2007.
- (3) The number of shares of Common Stock beneficially owned or of record has been determined solely from information reported on a Schedule 13G as of January 12, 2007.

- (4) Includes 26,875 shares of Common Stock subject to stock options held by Dr. Allen that are exercisable within 60 days of April 19, 2007.

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- (5) Paul J. McCormick was granted 22,500 options upon his appointment to serve as a Director. Mr. McCormick's options are subject to the option vest 1/3 rd per year through April 18, 2010. Therefore, there are no shares exercisable within 60 days of April 19, 2007.
- (6) Includes 157,500 shares of Common Stock subject to stock options held by Mr. Mortensen that are exercisable within 60 days of April 19, 2007.
- (7) Includes 137,500 shares of Common Stock subject to stock options held by Dr. Slepian that are exercisable within 60 days of April 19, 2007.
- (8) Gregory D. Waller was granted 22,500 options upon his appointment to serve as a Director. Mr. Waller's options are

subject to the
option vest 1/3rd
per year through
April 1, 2010.
Therefore, there
are no shares
exercisable
within 60 days of
April 19, 2007.

(9) Includes 583,023
shares of
Common Stock
subject to stock
options held by
Mr. Lanigan that
are exercisable
within 60 days of
April 19, 2007.

(10) Mr. Quinn's
employment was
terminated on
July 12, 2006.
His address is 18
Rolfes Lane,
Newbury, MA
01951. Includes
689,008 shares of
Common Stock
subject to stock
options held by
Mr. Quinn that
are exercisable
within 60 days of
April 19, 2007.

(11) Includes 196,001
shares of
Common Stock
subject to stock
options held by
Mr. Arthur that
are exercisable
within 60 days of
April 19, 2007.

(12) Includes 115,972
shares of
Common Stock
subject to stock

options held by Mr. Scarano that are exercisable within 60 days of April 19, 2007.

- (13) Represents shares of Common Stock beneficially owned by all directors, named executive officers, and our other executive officers as of April 19, 2007, as a group. Includes options to purchase an aggregate of 2,047,684 shares of Common Stock exercisable within 60 days of April 19, 2007.

Equity Compensation Plan Information

The following table gives information about our common stock that may be issued upon the exercise of options, warrants and rights under all of our existing equity compensation plans as of December 31, 2006, including the 1996 Stock Option Plan, as amended, and the 1996 Director Stock Option Plan, as amended.

| Plan Category | (a) | (b) | (c) | (d) |
|---|---|--|--|--|
| | Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights | Weighted Average Exercise Price of Outstanding Options Warrants and Rights | Number of Securities Remaining Available for Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column (a)) | Total of Securities Reflected in Columns (a) and (c) |
| Stock Option Plans Approved by Shareholders(1) | 3,491,000 | \$ 0.89 | 4,822,000 | 8,313,000 |
| Employee Stock Purchase Plan Approved by Shareholders(2) | | | 267,743 | 267,743 |
| Equity Compensation Plans Not Approved by Shareholders(3) | 6,015,000 | \$ 0.97 | N/A | 6,015,000 |
| Total | 9,506,000 | \$ 0.94 | 5,089,743 | 14,595,743 |

- (1) Consists of the
Cardiogenesis
Corporation
Stock Option
Plan and
Director Stock
Option Plan.

- (2) Consists of the
Cardiogenesis
Corporation
Employee Stock
Purchase Plan.
The Employee
Stock Purchase
Plan enables
employees to
purchase the our
common stock
at a 15%
discount to the
lower of market
value at the
beginning or
end of each six
month offering
period. As such,
the number of
shares that may
be issued
pursuant to the
Employee Stock
Purchase Plan
during a given
six month
period and the
purchase price
of such shares
cannot be
determined in
advance.

- (3) Consists of
275,000 shares
of common
stock subject to
warrants having
exercise prices
ranging from
\$0.35 to

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\$0.44 per share issued to a lender in connection with a credit facility, 3,100,000 shares of common stock subject to warrants having an exercise price of \$1.37 issued to investors in connection with a private equity offering, and 2,640,000 shares of common stock subject to warrants having an exercise price of \$0.50 per share issued to a lender in connection with a secured convertible note financing transaction.

Item 12. *Certain Relationships and Related Transactions, and Director Independence.*

During 2006, we paid Gary S. Allen, M.D. \$51,000 for his consulting services and involvement in our TMR and Pearl studies

Until July 13, 2006, Mr. Quinn's daughter was employed as our Director of Corporate Events and Communications and received total cash compensation of \$67,003. In 2006, Mr. Kletzel's son was employed as a Director of Sales and received total cash compensation of \$258,439.

Item 13. *Exhibits*

Exhibit No. Description

- 3.1.1(1) Restated Articles of Incorporation, as filed with the California Secretary of State on May 1, 1996
- 3.1.2(2) Certificate of Amendment of Restated Articles of Incorporation, as filed with California Secretary of State on July 18, 2001
- 3.1.3(3) Certificate of Determination of Preferences of Series A Preferred Stock, as filed with the California Secretary of State on August 23, 2001

- 3.1.4(4) Certificate of Amendment of Restated Articles of Incorporation, as filed with the California Secretary of State on January 23, 2004
- 3.2(5) Amended and Restated Bylaws
- 4.1(6) Third Amendment to Rights Agreement, dated October 26, 2004, between the Company and Equiserve Trust Company N.A.
- 4.2(7) Second Amendment to Rights Agreement, dated as of January 21, 2004, between Cardiogenesis Corporation and EquiServe Trust Company, N.A., as Rights Agent
- 4.3(8) First Amendment to Rights Agreement, dated as of January 17, 2002, between Cardiogenesis Corporation and EquiServe Trust Company, N.A., as Rights Agent
- 4.4(9) Rights Agreement, dated as of August 17, 2001, between Cardiogenesis Corporation and EquiServe Trust Company, N.A., as Rights Agent
- 4.5(10) Securities Purchase Agreement, dated as of January 21, 2004, by and among Cardiogenesis Corporation and each of the investors identified therein
- 4.6(11) Registration Rights Agreement, dated as of January 21, 2004, by and among Cardiogenesis Corporation and the investors identified therein
- 4.7(12) Form of Common Stock Purchase Warrant, dated January 21, 2004, having an exercise price of \$1.37 per share
- 4.8(13) Securities Purchase Agreement, dated October 26, 2004, between the Company and Laurus Master Fund, Ltd.
- 4.9(14) Secured Convertible Term Note, dated October 26, 2004, in favor of Laurus Master Fund, Ltd.
- 4.10(15) Registration Rights Agreement, dated October 26, 2004, between the Company and Laurus Master Fund, Ltd.
- 4.11(16) Common Stock Purchase Warrant, dated October 26, 2004, in favor of Laurus Master Fund, Ltd.

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Exhibit No. Description

| | |
|------------|--|
| 4.12(17) | Security Agreement, dated October 26, 2004, in favor of Laurus Master Fund, Ltd. |
| 10.1(18)* | Form of Indemnification Agreement by and between the Company and each of its officers and directors |
| 10.2(19)* | Stock Option Plan, as amended and restated July 2005 |
| 10.3(20)* | Director Stock Option Plan, as amended and restated July 2005 |
| 10.4(21)* | Employee Stock Purchase Plan, as amended and restated July 2005 |
| 10.5(22) | Lease for the Company's executive offices in Irvine, California |
| 10.6(23)* | 401(k) Plan, as restated January 1, 2005 |
| 10.8(24)* | Description of the Stock Option Plan |
| 10.9(25)* | Description of the Director Stock Option Plan |
| 10.10(26)* | Form of Stock Option Agreement for Executive Officers under the Stock Option Plan |
| 10.11(27)* | Form of Grant Notice under the Stock Option Plan |
| 10.12(28)* | Form of Stock Option Agreement for Directors under the Director Stock Option Plan |
| 10.13(29)* | Form of Grant Notice under the Director Stock Option Plan |
| 10.14(30)* | Settlement Agreement and General Release between the Registrant and Michael J. Quinn, dated October 24, 2006 |
| 10.15(31)* | Summary of Director Compensation |
| 10.16(32)* | Summary of Executive Compensation |
| 21.1(33) | List of Subsidiaries |
| 23.1(34) | Consent of KMJ/Corbin & Company LLP |
| 31.1(35) | Certification of the President pursuant to Rule 13a-14(a) of Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 |
| 31.2(35) | Certification of the Chief Financial Officer pursuant to Rule 13a-14(a) of Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 |
| 32.1(35) | Certifications of the President and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 |

- * Management contract, compensatory plan or arrangement
- (1) Incorporated by reference to Exhibit 3.1 to the Registrant's Registration Statement on Form S-1/A (File No. 33-03770), filed May 21, 1996
- (2) Incorporated by reference to Exhibit 3.2 to the Registrant's Quarterly Report on Form 10-Q filed on August 14, 2001
- (3) Incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed on August 20, 2001
- (4) Incorporated by reference to Exhibit 3.1.4 to the Registrant's Annual Report on Form 10-K filed on March 10, 2004
- (5) Incorporated by reference to Exhibit 3.2 to the Registrant's Annual Report on Form 10-K

filed on
March 10, 2004

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- (6) Incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed October 28, 2004
- (7) Incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed January 26, 2004
- (8) Incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed January 18, 2002
- (9) Incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed August 20, 2001
- (10) Incorporated by reference to Exhibit 4.4 to the Registrant's Current Report on Form 8-K filed January 22, 2004
- (11) Incorporated by reference to Exhibit 4.5 to

the Registrant's
Current Report
on Form 8-K
filed January 22,
2004

(12) Incorporated by
reference to
Exhibit 4.6 to
the Registrant's
Current Report
on Form 8-K
filed January 22,
2004

(13) Incorporated by
reference to
Exhibit 4.2 to
the Registrant's
Current Report
on Form 8-K
filed
October 28,
2004

(14) Incorporated by
reference to
Exhibit 4.3 to
the Registrant's
Current Report
on Form 8-K
filed
October 28,
2004

(15) Incorporated by
reference to
Exhibit 4.4 to
the Registrant's
Current Report
on Form 8-K
filed
October 28,
2004

(16) Incorporated by
reference to
Exhibit 4.5 to
the Registrant's
Current Report
on Form 8-K

filed
October 28,
2004

(17) Incorporated by
reference to
Exhibit 4.6 to
the Registrant's
Current Report
on Form 8-K
filed
October 28,
2004

(18) Incorporated by
reference to the
Company's
Registration
Statement on
Form S-1 (File
No. 333-03770),
as amended,
filed April 18,
1996

(19) Incorporated by
reference to
Exhibit 10.2 of
the Registrant's
Annual Report
on Form 10-K
filed on
August 21, 2006

(20) Incorporated by
reference to
Exhibit 10.3 of
the Registrant's
Annual Report
on Form 10-K
filed on
August 21, 2006

(21) Incorporated by
reference to
Exhibit 10.4 of
the Registrant's
Annual Report
on Form 10-K
filed on
August 21, 2006

- (22) Incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 10-K filed August 25, 2006

- (23) Incorporated by reference to Exhibit 10.6 to the Registrant's Annual Report on Form 10-K filed March 31, 2005

- (24) Incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed on August 4, 2005

- (25) Incorporated by reference to Exhibit 10.2 to the Registrant's Current Report on Form 8-K filed on August 4, 2005

- (26) Incorporated by reference to Exhibit 10.3 to the Registrant's Current Report on Form 8-K filed on August 4, 2005

- (27) Incorporated by reference to Exhibit 10.4 to the Registrant's Current Report

on Form 8-K
filed on
August 4, 2005

(28) Incorporated by
reference to
Exhibit 10.5 to
the Registrant's
Current Report
on Form 8-K
filed on
August 4, 2005

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- (29) Incorporated by reference to Exhibit 10.6 to the Registrant's Current Report on Form 8-K filed on August 4, 2005
- (30) Incorporated by reference to Exhibit 10.14 to the Registrant's Annual Report on Form 10-KSB filed on March 29, 2007
- (31) Incorporated by reference to Exhibit 10.15 to the Registrant's Annual Report on Form 10-KSB filed on March 29, 2007
- (32) Incorporated by reference to Exhibit 10.16 to the Registrant's Annual Report on Form 10-KSB filed on March 29, 2007
- (33) Incorporated by reference to Exhibit 21.1 to the Registrant's Annual Report on Form 10-KSB filed on March 29, 2007
- (34) Incorporated by reference to Exhibit 23.1 to the Registrant's

Annual Report
on Form
10-KSB filed on
March 29, 2007

(35) Filed herewith

Item 14. Principal Accountant Fees and Services.

The following is a description of aggregate fees billed to Cardiogenesis independent registered public accounting firm for each of the past two fiscal years. On July 5, 2005, KMJ Corbin & Company LLP (Corbin) was engaged as the independent registered public accounting firm.

| | 2006 | 2005 |
|--------------------|------------------|------------------|
| Audit Fees | \$ 95,000 | \$ 83,000 |
| Audit-Related Fees | | |
| Tax Fees | | |
| All Other Fees | | |
| Total Fees | \$ 95,000 | \$ 83,000 |

Audit fees represent amounts paid for professional services rendered for the audit of Cardiogenesis financial statements for such periods and the review of the financial statements included in Cardiogenesis Quarterly Reports during such periods.

Audit Committee Policies and Procedures for Preapproval of Audit and Non-Audit Services

During 2006, the entire Board of Directors performed the functions of the Audit Committee and followed the pre-approval policies that had previously been approved by the Audit Committee. On an on-going basis, management communicates specific projects and categories of service for which the advance approval of the Audit Committee (or the entire Board, as applicable) is requested, if any. The Audit Committee (or the entire Board, as applicable) reviews these requests and advises management if the Audit Committee approves the engagement of the independent registered public accounting firm.

The Audit Committee (or the entire Board, as applicable) pre-approves all auditing services and permitted non-audit services (including the fees and terms thereof) to be performed for us by its independent registered public accounting firm, subject to the exceptions for non-audit services described in Section 10A(i)(1)(B) of the Securities Exchange Act of 1934, as amended, which are approved by the Audit Committee prior to the completion of the audit. The Board of Directors has considered whether the services provided by its independent registered public accounting firm are compatible with maintaining the independence of the independent registered public accounting firm and has concluded that the independence of both PwC and Corbin is maintained and is not compromised by the services provided.

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

CARDIOGENESIS CORPORATION

By: */s/ Richard P. Lanigan*
 Richard P. Lanigan
 President

Date: April 30, 2007

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed below by the following persons on behalf of the Registrant in the capacities and on the date indicated.

| Signature | Title | Date |
|------------------------------------|---|----------------|
| <i>/s/ Richard P. Lanigan</i> | President | April 30, 2007 |
| Richard P. Lanigan | <i>(Principal Executive Officer)</i> | |
| <i>/s/ William R. Abbott</i> | Senior Vice President, Chief Financial Officer, Secretary and Treasurer | April 30, 2007 |
| William R. Abbott | <i>(Principal Financial and Accounting Officer)</i> | |
| <i>/s/ Gary S. Allen, M.D.</i> | Director | April 30, 2007 |
| Gary S. Allen, M.D. | | |
| <i>/s/ Robert L. Mortensen</i> | Director | April 30, 2007 |
| Robert L. Mortensen | | |
| <i>/s/ Marvin J. Slepian, M.D.</i> | Director | April 30, 2007 |
| Marvin J. Slepian, M.D. | | |

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EXHIBIT INDEX

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- 10.6(23)* 401(k) Plan, as restated January 1, 2005

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| 10.9(25)* | Description of the Director Stock Option Plan |
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| 10.16(32)* | Summary of Executive Compensation |
| 21.1(33) | List of Subsidiaries |
| 23.1(34) | Consent of KMJ/Corbin & Company LLP |
| 31.1(35) | Certification of the President pursuant to Rule 13a-14(a) of Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 |
| 31.2(35) | Certification of the Chief Financial Officer pursuant to Rule 13a-14(a) of Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 |
| 32.1(35) | Certifications of the President and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 |

* Management contract, compensatory plan or arrangement

(1) Incorporated by reference to Exhibit 3.1 to the Registrant's Registration Statement on Form S-1/A (File

No. 33-03770),
filed May 21,
1996

- (2) Incorporated by reference to Exhibit 3.2 to the Registrant's Quarterly Report on Form 10-Q filed on August 14, 2001
- (3) Incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed on August 20, 2001
- (4) Incorporated by reference to Exhibit 3.1.4 to the Registrant's Annual Report on Form 10-K filed on March 10, 2004
- (5) Incorporated by reference to Exhibit 3.2 to the Registrant's Annual Report on Form 10-K filed on March 10, 2004
- (6) Incorporated by reference to Exhibit 4.1 to the Registrant's Current Report on Form 8-K filed October 28, 2004

(7)

Incorporated by
reference to
Exhibit 4.1 to
the Registrant's
Current Report
on Form 8-K
filed January 26,
2004

(8) Incorporated by
reference to
Exhibit 4.1 to
the Registrant's
Current Report
on Form 8-K
filed January 18,
2002

(9) Incorporated by
reference to
Exhibit 4.1 to
the Registrant's
Current Report
on Form 8-K
filed August 20,
2001

(10) Incorporated by
reference to
Exhibit 4.4 to
the Registrant's
Current Report
on Form 8-K
filed January 22,
2004

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(11) Incorporated by reference to Exhibit 4.5 to the Registrant's Current Report on Form 8-K filed January 22, 2004

(12) Incorporated by reference to Exhibit 4.6 to the Registrant's Current Report on Form 8-K filed January 22, 2004

(13) Incorporated by reference to Exhibit 4.2 to the Registrant's Current Report on Form 8-K filed October 28, 2004

(14) Incorporated by reference to Exhibit 4.3 to the Registrant's Current Report on Form 8-K filed October 28, 2004

(15) Incorporated by reference to Exhibit 4.4 to the Registrant's Current Report on Form 8-K filed October 28, 2004

(16)

Incorporated by
reference to
Exhibit 4.5 to
the Registrant's
Current Report
on Form 8-K
filed
October 28,
2004

(17) Incorporated by
reference to
Exhibit 4.6 to
the Registrant's
Current Report
on Form 8-K
filed
October 28,
2004

(18) Incorporated by
reference to the
Company's
Registration
Statement on
Form S-1 (File
No. 333-03770),
as amended,
filed April 18,
1996

(19) Incorporated by
reference to
Exhibit 10.2 of
the Registrant's
Annual Report
on Form 10-K
filed on
August 21, 2006

(20) Incorporated by
reference to
Exhibit 10.3 of
the Registrant's
Annual Report
on Form 10-K
filed on
August 21, 2006

(21) Incorporated by
reference to

Exhibit 10.4 of
the Registrant's
Annual Report
on Form 10-K
filed on
August 21, 2006

(22) Incorporated by
reference to
Exhibit 10.1 to
the Registrant's
Current Report
on Form 10-K
filed August 25,
2006

(23) Incorporated by
reference to
Exhibit 10.6 to
the Registrant's
Annual Report
on Form 10-K
filed March 31,
2005

(24) Incorporated by
reference to
Exhibit 10.1 to
the Registrant's
Current Report
on Form 8-K
filed on
August 4, 2005

(25) Incorporated by
reference to
Exhibit 10.2 to
the Registrant's
Current Report
on Form 8-K
filed on
August 4, 2005

(26) Incorporated by
reference to
Exhibit 10.3 to
the Registrant's
Current Report
on Form 8-K
filed on
August 4, 2005

- (27) Incorporated by reference to Exhibit 10.4 to the Registrant's Current Report on Form 8-K filed on August 4, 2005
- (28) Incorporated by reference to Exhibit 10.5 to the Registrant's Current Report on Form 8-K filed on August 4, 2005
- (29) Incorporated by reference to Exhibit 10.6 to the Registrant's Current Report on Form 8-K filed on August 4, 2005
- (30) Incorporated by reference to Exhibit 10.14 to the Registrant's Annual Report on Form 10-KSB filed on March 29, 2007
- (31) Incorporated by reference to Exhibit 10.15 to the Registrant's Annual Report on Form 10-KSB filed on March 29, 2007
- (32) Incorporated by reference to Exhibit 10.16 to the Registrant's Annual Report

on Form
10-KSB filed on
March 29, 2007

(33) Incorporated by
reference to
Exhibit 21.1 to
the Registrant's
Annual Report
on Form
10-KSB filed on
March 29, 2007

Table of Contents

(34) Incorporated by
reference to
Exhibit 23.1 to
the Registrant's
Annual Report
on Form
10-KSB filed on
March 29, 2007

(35) Filed herewith

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