

MORTENSEN ROBERT L
 Form 4
 May 22, 2009

FORM 4

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

OMB APPROVAL

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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 OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 MORTENSEN ROBERT L

2. Issuer Name and Ticker or Trading Symbol
 CARDIOGENESIS CORP /CA
 [CGCP.PK]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
 05/20/2009

Director 10% Owner
 Officer (give title below) Other (specify below)

11 MUSICK

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

IRVINE, CA 92618

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Price		
				Code	V	Amount	

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

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SEC 1474 (9-02)

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

1. Title of Derivative Security	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code	5. Number of Derivative Securities Acquired	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)
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(Instr. 3)	Price of Derivative Security	(Month/Day/Year)	(Instr. 8)		(A) or Disposed of (D) (Instr. 3, 4, and 5)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares
			Code	V	(A)	(D)				
Stock Option (Right to Buy)	\$ 0.22	05/20/2009	A		50,000		<u>(1)</u>	05/20/2019	Common Stock	50,000
Stock Option (Right to Buy)	\$ 10.75	06/30/1999	D			7,500	<u>(2)</u>	06/30/2009	Common Stock	7,500
Stock Option (Right to Buy)	\$ 10.75	06/30/1999	A		7,500		<u>(2)</u>	06/30/2009	Common Stock	7,500
Stock Option (Right to Buy)	\$ 3.875	05/31/2000	D			7,500	<u>(3)</u>	05/31/2010	Common Stock	7,500
Stock Option (Right to Buy)	\$ 3.875	05/31/2000	A		7,500		<u>(3)</u>	05/31/2010	Common Stock	7,500
Stock Option (Right to Buy)	\$ 2.89	06/15/2001	D			7,500	<u>(4)</u>	06/15/2011	Common Stock	7,500
Stock Option (Right to Buy)	\$ 2.89	06/15/2001	A		7,500		<u>(4)</u>	06/15/2011	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.91	05/31/2002	D			7,500	<u>(5)</u>	05/31/2012	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.91	05/31/2002	A		7,500		<u>(5)</u>	05/31/2012	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.91	05/31/2002	D			18,000	<u>(6)</u>	05/31/2012	Common Stock	18,000

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Buy)

Stock Option (Right to Buy)	\$ 0.91	05/31/2002	A	18,000	(6)	05/31/2012	Common Stock	18,000
Stock Option (Right to Buy)	\$ 0.7	06/24/2003	D	7,500	(7)	06/24/2013	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.7	06/24/2003	A	7,500	(7)	06/24/2013	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.54	06/17/2004	D	7,500	(8)	06/17/2014	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.54	06/17/2004	A	7,500	(8)	06/17/2014	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.59	07/29/2005	D	7,500	(9)	07/29/2015	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.59	07/29/2005	A	7,500	(9)	07/29/2015	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.25	06/18/2007	D	7,500	(10)	06/18/2017	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.25	06/18/2007	A	7,500	(10)	06/18/2017	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.29	05/19/2008	D	7,500	(11)	05/19/2018	Common Stock	7,500
Stock Option (Right to Buy)	\$ 0.29	05/19/2008	A	7,500	(11)	05/19/2018	Common Stock	7,500

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MORTENSEN ROBERT L 11 MUSICK IRVINE, CA 92618		X		

Signatures

/s/ William R. Abbott by power of attorney for reporting person 05/22/2009

__Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) Shares subject to the option vest at 100% on the first anniversary of the grant date.
 - (2) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (3) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (4) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (5) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (6) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (7) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (8) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (9) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (10) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.
 - (11) The two reported transactions involved an amendment of an outstanding option, resulting in the deemed cancellation of the "old" option and the grant of a replacement option. The option is fully vested.

Remarks:

Exhibit 99.1 - Power of Attorney

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.