LAWLOR AUGUSTINE

Form 4

August 17, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

30(h) of the Investment Company Act of 1940

OMB Number:

3235-0287

Expires:

January 31, 2005

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OMB APPROVAL

response...

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

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

may continue. See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * LAWLOR AUGUSTINE			Issuer Name and Ticker or Trading Symbol Cardiovascular Systems Inc [CSII]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last)	(First)	Middle)		f Earliest Tr	ansaction		X Director	• • •	0% Owner
55 CAMBRIDGE PARKWAY, SUITE 301			(Month/Day/Year) 08/13/2010			Officer (give title Other (specify below)			
	(Street)	4. If Amendment, Date Original			I	6. Individual or Joint/Group Filing(Check			
CAMBRIDGE, MA 02142			Filed(Month/Day/Year)			Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(State)	(Zip)	Tabl	e I - Non-D	erivative :	Securities A	cquired, Disposed	l of, or Benefic	ially Owned
1.Title of Security (Instr. 3)	2. Transaction Dat (Month/Day/Year)	Execution any	med on Date, if Day/Year)	3. Transactic Code (Instr. 8)	Disposed (Instr. 3,	(A) or of (D)	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 Indirect Beneficial Ownership (Instr. 4)
Common Stock				Coac v	, mount	(b) The	361,235	I	By HealthCare Ventures VI, L.P. (1)
Common Stock							74,670	I	By HealthCare Ventures VIII, L.P. (2)

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form

SEC 1474 (9-02)

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displays a currently valid OMB control number.

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8 I S
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Restricted Stock Units	(3)					(3)	(3)	Common Stock	3,977	
Restricted Stock Units	<u>(3)</u>					<u>(3)</u>	(3)	Common Stock	11,628	
Restricted Stock Units	<u>(4)</u>	08/13/2010		A	21,739	<u>(4)</u>	<u>(4)</u>	Common Stock	21,739	

Reporting Owners

Reporting Owner Name / Address	Relationships					
Treporting of the remove remove and	Director	10% Owner	Officer	Other		
LAWLOR AUGUSTINE 55 CAMBRIDGE PARKWAY SUITE 301 CAMBRIDGE, MA 02142	X					

Signatures

/s/ John R. Remakel as Attorney-in-Fact for Augustine Lawlor pursuant to Power of Attorney previously filed.

08/17/2010

Sec (In

**Signature of Reporting Person

ing 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).
- The Reporting Person is a general partner of HealthCare Partners VI, L.P., the General Partner of the entity owning the shares. The Reporting Person disclaims beneficial ownership of those securities in which he does not have a pecuniary interest and this report shall not be deemed an admission that he is the beneficial owner of these securities for purposes of Section 16, except to the extent of his pecuniary interest therein.

Reporting Owners 2

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- The Reporting Person is a general partner of HealthCare Partners VIII, L.P., the General Partner of the entity owning the shares. The Reporting Person disclaims beneficial ownership of those securities in which he does not have a pecuniary interest and this report shall not be deemed an admission that he is the beneficial owner of these securities for purposes of Section 16, except to the extent of his pecuniary interest therein.
- Each restricted stock unit represents the right to receive a payment from CSI equal in value to the market price per share of CSI common stock on the date of payment, and shall be payable in cash beginning six months following the termination of each director's board membership.
- Each restricted stock unit represents the right to receive a payment from CSI equal in value to the market price per share of CSI common stock on the date of payment, and shall be payable in cash or shares of the Company's Common Stock beginning six months following the termination of each director's board membership; provided, however, that the restricted stock units vest in quarterly amounts of 5,435 on each of 9/30/2010, 12/31/2010, and 3/31/2011 and 5,434 on 6/30/2011.

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.