Trigg Leslie Form 4 January 20, 2011

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

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

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Trigg Leslie			2. Issuer Name and Ticker or Trading Symbol			5. Relationship of Reporting Person(s) to Issuer			
			Cardiovascular Systems Inc [CSII]				(Check all applicable)		
(Last)	(First) (1	Middle)	3. Date of Earliest Transaction						
651 CAMPUS DRIVE			(Month/Day/Year) 01/18/2011				X Director Officer (giv below)		6 Owner er (specify
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting PersonForm filed by More than One Reporting			
ST. PAUL, N	MIN 55112						Person		
(City)	(State)	(Zip)	Table	e I - Non-De	erivative S	ecurities Ac	quired, Disposed	of, or Beneficia	lly Owned
1.Title of Security (Instr. 3)	2. Transaction Dat (Month/Day/Year)	Execution any	emed on Date, if Day/Year)	3. Transactic Code (Instr. 8)	4. Securit onAcquired 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							4,000	D	
Common Stock							1,962	I	By Trigg Family Trust

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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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 on Derivative 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 8.83					<u>(1)</u>	10/02/2016	Common Stock	6,470
Warrant (right to buy)	\$ 8.83					02/25/2009	02/24/2014	Common Stock	745
Restricted Stock Units	<u>(2)</u>	01/18/2011		A	6,707	(2)	(2)	Common Stock	6,707

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Trigg Leslie							
651 CAMPUS DRIVE	X						
ST. PAUL, MN 55112							

Signatures

/s/ John R. Remakel as Attorney-in-Fact for Leslie L. Trigg pursuant to Power of Attorney previously filed.

01/20/2011

**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) Fully exercisable.

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 1,287 immediately; 2,695 on 3/31/2011 & 2,725 on 6/30/11.

Reporting Owners 2

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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.