Cardiovascular Systems Inc

Check this box if

no longer subject

to Section 16.

5 obligations

may continue.

Form 4 or Form

Form 5

August 13, 2014

OMB APPROVAL FORM 5

OMB Number:

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ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

Reported Form 4

30(h) of the Investment Company Act of 1940

Transactions Reported

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer Martin David Symbol Cardiovascular Systems Inc [CSII] (Check all applicable) (First) (Middle) 3. Statement for Issuer's Fiscal Year Ended (Last) (Month/Day/Year) _X_ Director 10% Owner _X_ Officer (give title Other (specify 06/30/2014 below) below) 651 CAMPUS DRIVE President and CEO (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line)

ST. PAUL, MNÂ 55112

(State)

(Zip)

(City)

X Form Filed by One Reporting Person Form Filed by More than One Reporting Person

(City)	(State) (Table	e I - Non-Deri	vative Sec	curities	s Acqui	red, Disposed o	f, or Beneficial	ly 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. Securi (A) or D (D) (Instr. 3,	4 and : (A) or	d of	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	08/15/2013	Â	S4	250	D	\$ 20.4	850	I	By child
Common Stock	08/15/2013	Â	S4	750	D	\$ 20.4	350	I	By child
Common Stock	08/15/2013	Â	S4	250	D	\$ 20.4	850	I	By child

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

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SEC 2270 (9-02)

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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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Titl	e and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	Number	Expiration Da	ate	Amou	nt of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)
	Derivative				Securities			(Instr.	3 and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									Amount	
									or	
					Date Exercisa	Date	Expiration sable Date	Title Number		
						Exercisable			of	
					(A) (D)				Shares	
					(II)				Dilaics	

Reporting Owners

Reporting Owner Name / Address	Relationships						
·r· · · · · · · · · · · · · · · · · · ·	Director	10% Owner	Officer	Other			
Martin David 651 CAMPUS DRIVE ST. PAUL, MN 55112	ÂX	Â	President and CEO	Â			

Signatures

/s/ Amanda Schmall as Attorney-in-Fact for David L. Martin pursuant to Power of Attorney previously filed.

08/13/2014

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**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).

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.

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