Kenny Kevin J Form 4 May 31, 2012

FORM 4

OMB APPROVAL

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

OMB Number: 3235-0287

Check this box if no longer subject to Section 16. Form 4 or Expires: January 31,

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)

05/29/2012

Stock

1. Name and A Kenny Kev	Address of Reporting in J	Symbol	r Name and Ticker or Trading	5. Relationship of Reporting Person(s) to Issuer				
		Cardio	vascular Systems Inc [CSII]	(Check all applicable)				
(Last)	(First) (1	Middle) 3. Date of	f Earliest Transaction					
651 GAAFB	ua ppuie	`	Day/Year)	Director 10% Owner				
651 CAMP	US DRIVE	05/29/2	2012	_X_ Officer (give title Other (specify below)				
				Exec. VP, Sales & Mtkg				
	(Street)	4. If Am	endment, Date Original	6. Individual or Joint/Group Filing(Check				
		Filed(Mo	nth/Day/Year)	Applicable Line)				
				X Form filed by One Reporting Person Form filed by More than One Reporting				
ST. PAUL,	MN 55112			Person				
(City)	(State)	(Zip) Tab	le I - Non-Derivative Securities Ac	quired, Disposed of, or Beneficially Owned				
1.Title of	2. Transaction Date	e 2A. Deemed	3. 4. Securities Acquired	5. Amount of 6. Ownership 7. Nature of				
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	Transaction(A) or Disposed of (D)					
(Instr. 3)		any (Month/Day/Year)	Code (Instr. 3, 4 and 5) (Instr. 8)	Beneficially (D) or Beneficial Owned Indirect (I) Ownership				
		(Wolldin Day Tear)	(IIIsu. 6)	Following (Instr. 4) (Instr. 4)				
			(A)	Reported				
			or	Transaction(s)				
			Code V Amount (D) Price	(Instr. 3 and 4)				
Common			\$					
Common	05/20/2012		E 7.771 D 0.244	Q (221 (2) D				

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

F

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474

(9-02)

84,321 (2)

D

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

7,771

D

9.344

(1)

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1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Owne
	Security				Acquired						Follo
	·				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						`
					4, and 5)						
					, ,						
									Amount		
						Date	Expiration		or		
						Exercisable	Date	Title	Number		
									of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Kenny Kevin J 651 CAMPUS DRIVE ST. PAUL, MN 55112

Exec. VP, Sales & Mtkg

Signatures

/s/ Scott J. Dorfman as Attorney-in-Fact for Kevin J. Kenny pursuant to Power of Attorney previously filed.

05/31/2012

**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).
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$9.31 to \$9.44, inclusive. The reporting person undertakes to provide Cardiovascular Systems, Inc., any security holder of Cardiovascular Systems, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- (2) Includes 2,259 ESPP shares as of 12/31/11.

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. le="border:none">(15)Exercisable ratably over four years beginning 05/16/2014.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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