

Tyska Paul A
 Form 4
 August 25, 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 *
 Tyska Paul A

2. 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)
 651 CAMPUS DRIVE
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 08/21/2009

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 VP of Business Dev

ST. PAUL, MN 55112
 (City) (State) (Zip)

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

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)
			Code	V	Amount (A) or (D) Price		
Common Stock	08/21/2009		S		1,100 D \$ 8.5	23,120	D
Common Stock	08/21/2009		S		1,766 D \$ 8.5003	21,354	D
Common Stock	08/21/2009		S		200 D \$ 8.51	21,154	D
Common Stock	08/21/2009		S		700 D \$ 8.52	20,454	D
Common Stock						1,294	I Held as custodian for minor

children

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

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(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 (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. Transaction Code (Instr. 8)	5. Number of 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)	8. Price of Derivative Security (Instr. 3)	
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares
						(1)	(2)	(3)	(4)
Stock Option (right to buy)	\$ 8.83					(1) 10/02/2011	Common Stock	90,580	
Stock Option (right to buy)	\$ 7.9					(2) 08/06/2017	Common Stock	22,645	
Stock Option (right to buy)	\$ 12.15					(3) 12/11/2017	Common Stock	32,350	
Stock Option (right to buy)	\$ 8.75					(4) 03/01/2019	Common Stock	7,764	

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Tyska Paul A			VP of Business Dev	

651 CAMPUS DRIVE
ST. PAUL, MN 55112

Signatures

/s/ John R. Remakel as Attorney-in-Fact for Paul A. Tyska pursuant to Power of Attorney
previously filed.

08/25/2009

__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) Exercisable: 30,194 on 10/3/07 and 30,193 on 10/03/08 and 10/03/09.
- (2) Exercisable: 7,549 on 8/7/08 and 7,548 on 8/7/09 and 8/7/10.
- (3) Exercisable: 16,175 on 2/25/10 and 2/25/11.
- (4) Exercisable: 3,882 on 3/2/10 and 3/2/11.

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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