

Kraus Scott William  
 Form 4  
 May 17, 2010

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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 \*  
 Kraus Scott William

(Last) (First) (Middle)  
 1175 SEATON ROSS ROAD  
 (Street)

WAYNE, PA 19087

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 Cardiovascular Systems Inc [CSII]

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 05/13/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 VP Sales

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)
				(A) or (D)	Price		
Common Stock	05/13/2010		S <sup>(1)</sup>	1,700 D	\$ 5.16	58,297	D
Common Stock	05/13/2010		S <sup>(1)</sup>	242 D	\$ 5.161	58,055	D

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

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SEC 1474 (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 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 or Value of Underlying Securities (Instr. 3 and 4)
Stock Option (right to buy)	\$ 8.83					(2) 10/02/2016	Common Stock 25,880	
Stock Option (Right to Buy)	\$ 8.83					(2) 04/17/2017	Common Stock 3,235	
Stock Option (Right to Buy)	\$ 7.9					(3) 08/06/2017	Common Stock 9,705	
Warrant	\$ 8.83					02/25/2009 02/24/2014	Common Stock 3,197	
Warrant	\$ 8.83					02/25/2009 02/24/2014	Common Stock 2,537	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Kraus Scott William 1175 SEATON ROSS ROAD WAYNE, PA 19087			VP Sales	

## Signatures

/s/ John R. Remakel as Attorney-in-Fact for Scott W. Kraus pursuant to Power of Attorney previously filed.

05/17/2010

\_\_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) In connection with the vesting and delivery of restricted stock, shares were sold and the net proceeds were used to pay required withholding taxes.
- (2) Fully exercisable.
- (3) Exercisable: 3,235 on 8/7/08, 8/7/09 and 8/7/10.

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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