Koehn Paul A Form 3 December 29, 2008

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

SECURITIES

(Print or Type Responses)

1. Name and Address of Reporting
Person *

(Last) (First) (Middle)

2. Date of Event Requiring Statement Statement (Month/Day/Year)

(Last) (First) (Middle)

2. Date of Event Requiring Statement (CARDIOVASCULAR SYSTEMS INC [CSII])

(CARDIOVASCULAR SYSTEMS INC [CSII])

4. Relationship of Reporting Person(s) to Issuer Filed(Month/Day/Year)

651 CAMPUS DRIVE

(Check all applicable)

Director

6. Individual or Joint/Group
Filing(Check Applicable Line)
X Form filed by One Reporting

X Officer _X_ Other (give title below) (specify below) VP of Manufacturing / Mbr of

3.

Person

Form filed by More than One

13(d) grp owng > 10% Reporting Person

10% Owner

ST. PAUL, MNÂ 55112

(City) (State) (Zip)

(Street)

1.Title of Security (Instr. 4)

2. Amount of Securities Beneficially Owned (Instr. 4)

ially Owned Ownership
Form:

4. Nature of Indirect Beneficial Ownership (Instr. 5)

Direct (D) or Indirect (I) (Instr. 5)

Table I - Non-Derivative Securities Beneficially Owned

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

SEC 1473 (7-02)

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.

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

1. Title of Derivative Security 2. Date Exercisable and 3. Title and Amount of 4 5. 6. Nature of Indirect Securities Underlying Ownership Beneficial Ownership (Instr. 4) **Expiration Date** Conversion (Month/Day/Year) **Derivative Security** or Exercise Form of (Instr. 5) (Instr. 4) Price of Derivative Security: Derivative Date Expiration Title Amount or Direct (D) Security Exercisable Date Number of or Indirect Shares (I)

						(Instr. 5)		
Series B Conv Preferred Stock	(1)	(1)	Common Stock	3,821	\$ <u>(1)</u>	D	Â	
Stock Option (right to buy)	(2)	04/17/2017	Common Stock	55,000	\$ 5.71	D	Â	
Stock Option (right to buy)	(3)	04/17/2017	Common Stock	2,000	\$ 5.71	D	Â	
Stock Option (right to buy)	(4)	06/11/2017	Common Stock	25,000	\$ 5.11	D	Â	
Stock Option (right to buy)	(5)	10/08/2017	Common Stock	20,000	\$ 5.11	D	Â	
Stock Option (right to buy)	(6)	12/11/2017	Common Stock	50,000	\$ 7.86	D	Â	

Reporting Owners

Reporting Owner Name / Address	Relationships						
1	Director	10% Owner	Officer	Other			
Koehn Paul A 651 CAMPUS DRIVE ST PAUL Â MNÂ 55112	Â	Â	VP of Manufacturing	Mbr of 13(d) grp owng > 10%			

Signatures

/s/ Carlye S. Landin as Attorney-in-Fact for Paul Koehn pursuant to Power of Attorney filed herewith.

12/29/2008

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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) Each share of Series B convertible preferred stock is convertible at any time, at the holder's election, into 1.01 shares of common stock and has no expiration date.
- (2) Exercisable: 18,333 on 4/18/08 and 4/18/09 and 18,334 on 4/18/10.
- (3) Exercisable: 667 on 4/18/08 and 4/18/09 and 666 on 4/18/10.
- (4) Exercisable: 8,333 on 6/12/08 and 6/12/09 and 8,334 on 6/12/10.
- (5) Exercisable: 6,667 on 10/9/08 and 10/9/09 and 6,666 on 10/9/10.
- (6) Exercisable: 25,000 on the first anniversary of the closing of the Company's merger with Replidyne, Inc. and 25,000 on the second anniversary of the merger.

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.

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