

SOMANETICS CORP  
 Form 4  
 July 28, 2010

**FORM 4**

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

OMB APPROVAL

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**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 \*  
 SORENSEN RICHARD R

(Last) (First) (Middle)

SOMANETICS CORPORATION, 2600 TROY CENTER DRIVE

(Street)

TROY, MI 48084

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 SOMANETICS CORP [SMTS]

3. Date of Earliest Transaction (Month/Day/Year)  
 07/27/2010

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)

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)	Code	V	Amount	(D)	Price

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

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SEC 1474 (9-02)

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

1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transaction	5. Number of Derivative	6. Date Exercisable and Expiration Date	7. Title and Amount of Underlying Securities	8.
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Security (Instr. 3)	or Exercise Price of Derivative Security	any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Year)	(Instr. 3 and 4)				
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Director stock option (right to buy)	\$ 15.33	07/27/2010	D		10,000		<u>(1)</u>	06/13/2016	Common Shares	10,000
Director stock option (right to buy)	\$ 19.33	07/27/2010	D		10,000		<u>(2)</u>	06/13/2017	Common Shares	10,000
Director stock option (right to buy)	\$ 16.82	07/27/2010	D		10,000		<u>(3)</u>	04/10/2018	Common Shares	10,000
Director stock option (right to buy)	\$ 14.77	07/27/2010	D		10,000		<u>(4)</u>	04/23/2019	Common Shares	10,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SORENSEN RICHARD R SOMANETICS CORPORATION 2600 TROY CENTER DRIVE TROY, MI 48084	X			

## Signatures

Richard R. Sorensen                      07/28/2010

\*\*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) The option vested in five equal annual installments beginning on 6/13/07 and the unvested portion of the option became exercisable upon change of control pursuant to acceptance of the shares in the tender offer pursuant to the agreement and plan of merger between Somanetics and Covidien announced on June 16, 2010

(2) The option vested in five equal annual installments beginning on 6/13/08 and the unvested portion of the option became exercisable upon change of control pursuant to acceptance of the shares in the tender offer pursuant to the agreement and plan of merger between Somanetics and Covidien announced on June 16, 2010

(3) The option vested in five equal annual installments beginning on 4/10/09 and the unvested portion of the option became exercisable upon change of control pursuant to acceptance of the shares in the tender offer pursuant to the agreement and plan of merger between Somanetics and Covidien announced on June 16, 2010

(4) The option vested in five equal annual installments beginning on 4/23/10 and the unvested portion of the option became exercisable upon change of control pursuant to acceptance of the shares in the tender offer pursuant to the agreement and plan of merger between Somanetics and Covidien announced on June 16, 2010

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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