

Anderson Arik Allan
 Form 4
 July 28, 2010

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 *
 Anderson Arik Allan

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

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

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Sr. VP R & D and Operations

C/O SOMANETICS CORPORATION, 2600 TROY CENTER DRIVE

(Street)

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

TROY, MI 48084

(City) (State) (Zip)

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				
				Code	V	Amount	(D)	Price	
Common Shares	07/27/2010		U	D	22,400			\$ 25 0	D

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

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

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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)	Amount or Number of Shares
Employee Stock Option (right to buy)	\$ 18.93	07/27/2010		D	18,000	⁽¹⁾ 11/02/2017	Common Shares	18,000
Employee stock option (right to buy)	\$ 14.77	07/27/2010		D	18,000	⁽²⁾ 04/23/2019	Common Shares	18,000

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Anderson Arik Allan C/O SOMANETICS CORPORATION 2600 TROY CENTER DRIVE TROY, MI 48084			Sr. VP R & D and Operations	

Signatures

Arik A. Anderson 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 commencing 11/2/08 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
 - (2) The option vested in five equal annual installments commencing 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. 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.