

SOMANETICS CORP  
Form S-8 POS  
July 23, 2007

As filed with the Securities and Exchange Commission on July 23, 2007  
 Registration No. 333-4620

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

**POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-8**  
**REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933**

**SOMANETICS CORPORATION**  
 (Exact name of registrant as specified in its charter)

Michigan 38-2394784

(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.)

1653 East Maple Road, Troy, Michigan 48083-4208

(Address of Principal Executive Offices) (Zip Code)

STOCK OPTION AGREEMENTS, DATED DECEMBER 22, 1995  
 STOCK OPTION AGREEMENT, DATED JANUARY 5, 1996

(Full title of the plans)  
 Bruce J. Barrett, President  
 Somanetics Corporation  
 1653 East Maple Road  
 Troy, Michigan 48083-4208

(Name and address of agent for service)  
 (248) 689-3050

(Telephone number, including area code, of agent for service)

**Calculation of Registration Fee**

Title of securities to be registered	Amount to be registered	Proposed maximum offering price per share	Proposed maximum aggregate offering price	Amount of registration fee
Common Shares (1) (2)	24,311 shares	\$ 5.00 (3)	\$121,555.00	
Common Shares	21,500 shares	\$13.125 (3)	\$282,187.50	
Common Shares	40,800 shares	\$ 5.625 (3)	\$229,500.00	
Total	86,611 shares		\$633,242.50	\$261.42 (4)

(1) \$0.01 par value per share.

(2)

Reflects the  
1-for-10 reverse  
stock split effective  
April 10, 1997 and  
the deregistration  
of 4,667  
(post-reverse split)  
Common Shares  
previously subject  
to the July 20, 1995  
Stock Option  
Agreements and  
8,429  
(post-reverse-split)  
Common Shares  
previously subject  
to the  
December 22, 1995  
Stock Option  
Agreements, all of  
which shares are no  
longer issuable  
after the expiration  
of the related Stock  
Option  
Agreements,  
partially  
unexercised.

- (3) Calculated pursuant to Rule 457(h) solely for the purpose of computing the registration fee and based on the exercise price of the options.
- (4) The registration fee was paid upon the filing of the original registration statement

This Post-Effective Amendment No. 1 is being filed (1) to reflect the effect of the 1-for-10 reverse stock split effective April 10, 1997 on the shares registered, (2) to deregister 4,667 (post-reverse-split) Common Shares previously subject to the July 20, 1995 Stock Option Agreements and 8,429 (post-reverse-split) Common Shares previously subject to the December 22, 1995 Stock Option Agreements, all of which shares are no longer issuable after the expiration of the related Stock Option Agreements, partially unexercised, and (3) to disclose the completion of the offering of the remaining shares.

Page 2 of 3 Pages

---

**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this post-effective amendment no. 1 to registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Troy, State of Michigan, on July 23, 2007.

**SOMANETICS CORPORATION**

By: /s/ BRUCE J. BARRETT  
 Bruce J. Barrett,  
 Its: President and Chief Executive  
 Officer

Pursuant to the requirements of the Securities Act of 1933, this post-effective amendment no. 1 to registration statement has been signed by the following persons in the capacities and on the date indicated.

Signature	Title	Date
/s/ BRUCE J. BARRETT Bruce J. Barrett	President and Chief Executive Officer and a Director (Principal Executive Officer)	July 23, 2007
/s/ WILLIAM M. IACONA William M. Iacona	Vice President and Chief Financial Officer, Controller, and Treasurer (Principal Financial Officer and Principal Accounting Officer)	July 23, 2007
/s/ JAMES I. AUSMAN James I. Ausman, M.D., Ph.D.	Director	July 23, 2007
/s/ DANIEL S. FOLLIS Daniel S. Follis	Director	July 23, 2007
/s/ ROBERT R. HENRY Robert R. Henry	Director	July 23, 2007
/s/ RICHARD R. SORENSEN Richard R. Sorensen	Director	July 23, 2007
/s/ JOHN P. JUMPER John P. Jumper	Director	July 23, 2007