#### STALDER RUEDI

Form 4

February 23, 2010

### FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB

**OMB APPROVAL** 

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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 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person \* 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading STALDER RUEDI Issuer Symbol SENESCO TECHNOLOGIES INC (Check all applicable) [SNT] (Last) (First) (Middle) 3. Date of Earliest Transaction X Director 10% Owner Officer (give title Other (specify (Month/Day/Year) below) 303 GEORGE STREET, SUITE 420 02/19/2010 (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) \_X\_ Form filed by One Reporting Person Form filed by More than One Reporting NEW BRUNSWICK, NJ 08901 Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 6. Ownership 7. Nature of 3. 4. Securities Acquired 5. Amount of Execution Date, if Security (Month/Day/Year) Transaction(A) or Disposed of (D) Securities Form: Direct Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Beneficial (D) or anv (Month/Day/Year) (Instr. 8) Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) or (Instr. 3 and 4) Price Code V Amount (D) Common \$0 02/19/2010 P 135,779 382,549 D Stock

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)	Code	5. Number of onDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		te	7. Title and 2. Underlying \$ (Instr. 3 and	Securiti
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amor Numl Share
Common Stock Warrant	\$ 1.01	02/19/2010		P	78,581	02/19/2010	06/30/2012	Common Stock	78
Common Stock Warrant	\$ 1.01	02/19/2010		P	130,969	02/19/2010	12/20/2012	Common Stock	130
Common Stock Warrant	\$ 1.01	02/19/2010		P	87,313	02/19/2010	06/30/2013	Common Stock	87
Common Stock Warrant	\$ 0.83	02/19/2010		P	130,969	02/19/2010	12/20/2012	Common Stock	130
Common Stock Warrant	\$ 0.83	02/19/2010		P	87,313	02/19/2010	06/30/2013	Common Stock	87
Convertible Debenture Due 12/31/2010	\$ 0.22 (2)	02/19/2010		P	\$ 523,876	02/19/2010	12/31/2010	Common Stock	2,33

# **Reporting Owners**

Reporting Owner Name / Address	Relationships					
<b>rg</b>	Director	10% Owner	Officer	Othe		
STALDER RUEDI						

X

303 GEORGE STREET SUITE 420 NEW BRUNSWICK, NJ 08901

# **Signatures**

Ruedi Stalder	02/23/2010		
**Signature of Reporting Person	Date		

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## **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) Mr. Stalder entered into agreements to purchase an aggregate of 135,779 shares of common stock, 515,145 common stock warrants and \$523,876 of convertible debentures. The total purchase price was \$93,250, which was not allocated among the various components.
- The conversion rate used is the rate that the convertible debentures may convert at as of February 19, 2010. However, the conversion rate (2) may change as the convertible debentures convert at a floating conversion rate equal to the lower of \$0.83, subject to adjustment, or 80% the lowest daily VWAP for the five day period immediately preceding the conversion date.

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.