#### SENESCO TECHNOLOGIES INC

Form 4

December 18, 2006

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

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 \*

(First)

STALDER RUEDI

(Last)

2. Issuer Name and Ticker or Trading

Symbol

SENESCO TECHNOLOGIES INC

3. Date of Earliest Transaction

[SNT]

(Month/Day/Year)

303 GEORGE STREET, SUITE 420 12/14/2006

(Middle)

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

NEW BRUNSWICK, NJ 08901

5. Relationship of Reporting Person(s) to

Issuer

below)

(Check all applicable)

**OMB APPROVAL** 

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

X\_ Director 10% Owner Other (specify Officer (give title

6. Individual or Joint/Group Filing(Check

Applicable Line)

\_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

2. Transaction Date 2A. Deemed 1.Title of Security (Month/Day/Year) (Instr. 3)

Execution Date, if (Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5)

Code V Amount (D) Price

Owned

5. Amount of Securities Beneficially Following

Reported

Transaction(s)

(Instr. 3 and 4)

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (I) (Instr. 4) (Instr. 4)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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

1. Title of 3. Transaction Date 3A. Deemed Derivative (Month/Day/Year) Execution Date, if Conversion Security or Exercise any

4. 5. Number of TransactionDerivative Code Securities

(A)

or

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of **Underlying Securities** (Instr. 3 and 4)

(9-02)

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(Instr. 3) Price of (Month/Day/Year) (Instr. 8) Acquired (A) Derivative or Disposed of Security (D) (Instr. 3, 4, and 5) Code V (A) (D) Date Expiration Title Amount Exercisable Date or Number of Shares Common Common Stock \$ 1.08 12/14/2006 A 40,000 12/14/2006 12/14/2016 40,000

Stock

## **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

STALDER RUEDI
303 GEORGE STREET
SUITE 420
NEW BRUNSWICK, NJ 08901

## **Signatures**

Option (1)

Ruedi Stalder 12/18/2006

\*\*Signature of 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) Such options were issued to Mr. Stalder pursuant to the Company's Stock Incentive Plan, as amended, with one-half of such options vesting on the date of grant and one-half of such options vesting on the first anniversary of the date of grant.
- (2) Consists of different option grants at different exercise prices and vesting schedules.

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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