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 Number:

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January 31,

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response...

subject to Section 16. Form 4 or Form 5

obligations

if no longer

Check this box

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

may continue. See Instruction

1(b).

(Last)

(Print or Type Responses)

1. Name and Address of Reporting Person *

(First)

STALDER RUEDI

2. Issuer Name and Ticker or Trading

Symbol

5. Relationship of Reporting Person(s) to Issuer

SENESCO TECHNOLOGIES INC

[SNT]

3. Date of Earliest Transaction

(Month/Day/Year)

X_ Director 10% Owner Other (specify Officer (give title

(Check all applicable)

02/19/2010

303 GEORGE STREET, SUITE 420

(Middle)

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

below)

NEW BRUNSWICK, NJ 08901

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

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

5. Amount of Securities Beneficially Owned Following

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

(A) or

Reported Transaction(s) (Instr. 3 and 4)

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

1. Title of Derivative Conversion Security or Exercise

3. Transaction Date 3A. Deemed (Month/Day/Year) Execution Date, if

any

4. 5. Number of TransactionDerivative Code Securities

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

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

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(Instr. 3) Price of Derivative Security

(Month/Day/Year) (Instr. 8) Acquired (A)

or Disposed of (D)

(Instr. 3, 4, and 5)

(A)

Code V

(D) Date Expire Exercisable Date

Expiration Title

le

or Number of Shares

Amount

Common

Stock \$ 0.29 Option

02/19/2010

A 56,666

02/19/2010 02/19/2020

Common Stock 56,666

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

STALDER RUEDI 303 GEORGE STREET SUITE 420

X

NEW BRUNSWICK, NJ 08901

Signatures

Ruedi Stalder 02/23/2010

**Signature of Date

Reporting Person

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 granted to Mr. Stalder in lieu of cash compensation under the Companys independent directors compensation plan for the quarter ended December 31, 2009.

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.

Reporting Owners 2