

SENESCO TECHNOLOGIES INC

Form 4

December 17, 2007

FORM 4**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

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
THOMPSON JOHN PHD

2. Issuer Name **and** Ticker or Trading
Symbol

SENESCO TECHNOLOGIES INC
[SNT]

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

(Last) (First) (Middle)

303 GEORGE STREET, SUITE 420

(Street)

NEW BRUNSWICK, NJ 08901

(City) (State) (Zip)

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

12/13/2007

4. If Amendment, Date Original
Filed(Month/Day/Year)

☒ Director ☐ 10% Owner
☒ Officer (give title below) ☐ Other (specify below)

EVP and CSO

6. Individual or Joint/Group Filing(Check
Applicable Line)

☒ Form filed by One Reporting Person☐ Form filed by More than One Reporting Person**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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------------|---|---|--------------------------------------|--|--|--|---|
| | | | Code | V | Amount | (D) | Price |

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

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form
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SEC 1474
(9-02)

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

| 1. Title of Derivative Security | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction Code | 5. Number of Derivative Securities | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount Underlying Security (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) | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount Number Share |
|---------------------------|------------------------------------|------------------|------------|---|------|---|-----|-----|---------------------------|--------------------|-----------------|---------------------------|
| Common Stock Option | \$ 0.99 | 12/13/2007 | A | 52,676 (1) | | | | | 12/13/2007 ⁽¹⁾ | 12/13/2017 | Common Stock | 52, |
| Common Stock Option | \$ 0.99 | 12/13/2007 | A | 250,000 (2) | | | | | 12/13/2007 ⁽²⁾ | 12/13/2017 | Common Stock | 250, |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------|-------|
| | Director | 10% Owner | Officer | Other |
| THOMPSON JOHN PHD 303 GEORGE STREET SUITE 420 NEW BRUNSWICK, NJ 08901 | X | | EVP and CSO | |

Signatures

John Thompson,
PhD
12/17/2007

**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).

Such options were granted to Mr. Thompson pursuant to the Company's Stock Incentive Plan, as amended, with such options vesting
(1) upon the achievement of certain short term performance milestones for fiscal 2008, the achievement of which is subject to the determination of the Company's Compensation Committee.

Such options were granted to Mr. Thompson pursuant to the Company's Stock Incentive Plan, as amended, with such options vesting
(2) upon the achievement of certain long term performance milestones, the achievement of which is subject to the determination of the Company's Compensation Committee.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.
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