Van Hulst Jack Form 4 May 24, 2010

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

(Print or Type Responses)

(Last)

(City)

1. Title of

Security

(Instr. 3)

1. Name and Address of Reporting Person *

Van Hulst Jack

(First) (Middle)

303 GEORGE STREET, SUITE 420

(Zip)

(Street)

NEW BRUNSWICK, NJ 08901

(State)

(Month/Day/Year)

2. Issuer Name and Ticker or Trading

Symbol

SENESCO TECHNOLOGIES INC [SNT]

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

05/20/2010

4. If Amendment, Date Original

Filed(Month/Day/Year)

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

2. Transaction Date 2A. Deemed 3. Execution Date, if

(Month/Day/Year)

Code (Instr. 8)

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

4. Securities

(A)

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.

Persons who respond to the collection of 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 Derivative Conversion Security or Exercise

3. Transaction Date 3A. Deemed

(Month/Day/Year) Execution Date, if any

4. 5. Number of **Transaction**Derivative Code Securities

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

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

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

5. Relationship of Reporting Person(s) to

(Check all applicable)

President and CEO

6. Ownership

Form: Direct

(D) or Indirect Beneficial

6. Individual or Joint/Group Filing(Check

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

(T)

(Instr. 4)

below)

10% Owner

Other (specify

7. Nature of

Ownership

(Instr. 4)

SEC 1474

(9-02)

Indirect

Issuer

below)

Person

5. Amount of

Securities

Owned

Beneficially

Following

Reported

_X__ Director

Applicable Line)

X_ Officer (give title

Estimated average

burden hours per

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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 Exercisable

Expiration Date

Title

Amount or Number of Shares

Common

Stock \$ 0.61 Option

05/20/2010

75,000 A (1)

05/20/2010 05/20/2020

Common Stock

75,000

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Van Hulst Jack

303 GEORGE STREET

SUITE 420

X

President and CEO

NEW BRUNSWICK, NJ 08901

Signatures

Jack Van Hulst 05/24/2010 **Signature of

Reporting Person

Explanation of Responses:

If the form is filed by more than one reporting person, see Instruction 4(b)(v).

Date

- 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 issued to Mr. Van Hulst in connection with his service as the Company's President and Chief Executive Officer for the quarter ended March 31, 2010. Such options are exercisable on the date of grant.

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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