Van Hulst Jack 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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Expires:

January 31, 2005

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Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

if no longer

subject to

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Van Hulst Jack

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

SENESCO TECHNOLOGIES INC

(Check all applicable)

[SNT]

(Last) (First) 3. Date of Earliest Transaction

4. If Amendment, Date Original

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

below)

below)

303 GEORGE STREET, SUITE 420 02/19/2010

(Middle)

(Month/Day/Year)

President and CEO 6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

(Instr. 8)

Applicable Line) _X_ Form filed by One Reporting Person

Form filed by More than One Reporting

Person

NEW BRUNSWICK, NJ 08901

(City) (State) (Zip)

(Street)

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

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D)

5. Amount of Securities Beneficially

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

Owned Following

Ownership (T) (Instr. 4) (Instr. 4)

(A)

Reported Transaction(s)

(Instr. 3 and 4) Code V Amount (D) Price

(Instr. 3, 4 and 5)

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

(Month/Day/Year)

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

Conversion 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)

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	(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 8	8)	Acquired (or Dispose (D) (Instr. 3, 4 and 5)	ed of				
					Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
i	Common Stock Option	\$ 0.29	02/19/2010		A		37,500 (1)		02/19/2010	02/19/2020	Common Stock	37,500
i	Common Stock Option	\$ 0.29	02/19/2010		A		29,166 (2)		02/19/2010	02/19/2020	Common Stock	29,166

Reporting Owners

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
Van Hulst Jack 303 GEORGE STREET SUITE 420 NEW BRUNSWICK, NJ 08901	X		President and CEO					

Signatures

Jack Van Hulst 02/23/2010

**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. Van Hulst as compensation for his position as President and CEO from November 13, 2009 through December 31, 2009. Such options are exercisable on the date of grant.
- (2) Such options were granted to Mr. Van Hulst 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.

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