

Van Hulst Jack  
 Form 4  
 February 23, 2010

**FORM 4**

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

OMB APPROVAL

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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 \*  
 Van Hulst Jack

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)

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 02/19/2010

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 President and CEO

NEW BRUNSWICK, NJ 08901  
 (City) (State) (Zip)

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

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 Ownership (Instr. 4)
Common Stock	02/19/2010		P	V Amount (A) or (D) Price 6,552 A \$ 0 (1)	7,663	D	

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

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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)**

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount Underlying Securities (Instr. 3 and 4)		
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount
Common Stock Warrant	\$ 1.01	02/19/2010		P	3,792	02/19/2010	06/30/2010	Common Stock	3,792
Common Stock Warrant	\$ 1.01	02/19/2010		P	6,320	02/19/2010	12/20/2012	Common Stock	6,320
Common Stock Warrant	\$ 1.01	02/19/2010		P	4,213	02/19/2010	06/30/2013	Common Stock	4,213
Common Stock	\$ 0.83	02/19/2010		P	6,320	02/19/2010	12/20/2012	Common Stock	6,320
Common Stock Warrant	\$ 0.83	02/19/2010		P	4,213	02/19/2010	06/30/2013	Common Stock	4,213
Convertible Debenture Due 12/31/2010	\$ 0.22 <sup>(2)</sup>	02/19/2010		P	\$ 25,281	02/19/2010	12/31/2010	Common Stock	112,500

## 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                      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) Mr. Van Hulst entered into agreements to purchase an aggregate of 6,552 shares of common stock, 24,858 common stock warrants and \$25,281 of convertible debentures. The total purchase price was \$4,500, which was not allocated among the various components.

The conversion rate used is the rate that the convertible debentures may convert at as of February 19, 2010. However, the conversion rate may change as the convertible debentures convert at a floating conversion rate equal to the lower of \$0.83, subject to adjustment, or 80% of the lowest daily VWAP for the five day period immediately preceding the conversion date.

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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