FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

gton, D.C. 20549	OMB APPROVAL

- 1		
	OMB Number:	3235-028
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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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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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)						
						000 1		11,02,				X Director			10% Owner				
														X Officer (below)	give title		Other (s	pecify	
(Last) (First) (Middle)							f Earliest	Transa	action (Mo	nth/D	ay/Year)		President and CEO						
303 GEORGE STREET					02	02/19/2010								President and CEO					
SUITE 420																			
(Street)					4. 1	If Ame	ndment, D	ate of	Original F	iled	(Month/Day	y/Year)		6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person					
NEW		_																	
BRUNSV	VICK N	J	08901											Form filed by One Reporting Person  Form filed by More than One Reporting					
-														Person	eu by wor	e man	One Repon	iiig	
(City)	(Si	tate)	(Zip)																
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			ble I - Nor						<del></del>	ואוט	_								
1. Title of Security (Instr. 3)  2. Transidate (Month/II)			saction		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ties Acquired (A) or d Of (D) (Instr. 3, 4 a		5. Amoun Securities	3	Form:	: Direct   I	7. Nature of ndirect				
			(Month/Day/Year)						5)			Beneficia Owned Fo		(D) or (I) (Ins	str. 4)	Beneficial Ownership (Instr. 4)			
								Code	le V Amo		ount (A) or		Reported Transacti				['		
									Code	Ľ	Amount	(D)	Price	(Instr. 3 a	and 4)				
Common Stock 02/19				9/2010		P		6,552 A		\$0 <sup>(1)</sup>	7,663			D					
			Table II - I	Deriva	tive	Sec	urities	Acqu	ıired, D	ispo	osed of,	or Ben	eficially	Owned					
											onvertik								
1. Title of Derivative	2. Conversion	3. Transaction Date	3A. Deemed Execution D		4. Transaction Code (Instr. 8)		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and of Securitie Underlying Derivative				8. Price of Derivative	9. Number of derivative		10. Ownership	11. Nature of Indirect		
Security (Instr. 3)	or Exercise Price of	e (Month/Day/Year)	if any (Month/Day/											Security (Instr. 5)	Securitie Beneficia		Form: Direct (D)	Beneficial Ownership	
Derivative Security				, , ,			or Disposed of (D) (Instr. 3, 4 and 5)		(Instr. 3 and 4)					Owned Following		or Indirect (I) (Instr. 4)	(Instr. 4)		
Security												F	Reported	ĭ	1				
				_		Amount		Transaction(s) (Instr. 4)											
									Date		Expiration	1 1	or Number						
				C	ode	٧	(A) (D)		Exercisab	ole D	Date	Title	of Shares		<b>↓</b>	$-\!\!\!\!-\!\!\!\!\!-$			
Common	1		l				1					l	I	1	I		I	1	

02/19/2010

02/19/2010

02/19/2010

02/19/2010

02/19/2010

02/19/2010

06/30/2010

12/20/2012

06/30/2013

12/20/2012

06/30/2013

12/31/2010

Stock

Common

Stock

Common

Stock

Commor

Stock

Common

## **Explanation of Responses:**

\$1.01

\$1.01

\$1.01

\$0.83

\$0.83

**\$0.22**<sup>(2)</sup>

Stock

Warrant Common

Stock Warrant

Common

Stock Warrant

Common

Stock Common

Stock

Convertible Debenture

12/31/2010

02/19/2010

02/19/2010

02/19/2010

02/19/2010

02/19/2010

02/19/2010

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.

Jack Van Hulst

02/23/2010

\*\* Signature of Reporting Person

3,792

6.320

4.213

6,320

4,213

112.549

\$0<sup>(1)</sup>

\$0<sup>(1)</sup>

\$0<sup>(1)</sup>

\$0<sup>(1)</sup>

\$0<sup>(1)</sup>

\$0<sup>(1)</sup>

5,806

12,126

16,339

22,659

26,872

112 549

D

D

D

D

D

D

Date

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

- \* 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).

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

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 Number.

3,792

6.320

4.213

6,320

4,213

\$25,281

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P

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<sup>2.</sup> The conversion rate used is the rate that the convertible debenutures 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.