FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

washington,	D.C.	20343	

neck this box if no longer subject to								
ection 16. Form 4 or Form 5								
ligations may continue. See								
atministra 1/h								

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL								
	OMB Number:	3235-0287							
	Estimated average burden								
II	hours per response:	0.5							

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Waksal Harlan					2. Issuer Name and Ticker or Trading Symbol SENESCO TECHNOLOGIES INC [ SNT ]								ationship of k all applica Director Officer (d	ble)	Person	n(s) to Issue 10% Owr Other (sp	ner
(Last) 303 GEO SUITE 4	(First) (Middle) RGE STREET 20				3. Date of Earliest Transaction (Month/Day/Year) 11/17/2010								below)	give title		below)	ecity
(Street) NEW BRUNS	WICK N	IJ	08901	4	4. If Amendment, Date of Original Filed (Month/Day/Yea					(Year)	6. Indi Line) X						
(City)	(5	State)	(Zip)														
1. Title of Security (Instr. 3)  2. Transic Date			Transact te	<del></del>		uired, Disposed of, or Benefic  3. Transaction Code (Instr. Ocean Code		d (A) or	or 5. Amount of Securities Beneficially		Form: I (D) or I	Direct In Indirect Be	. Nature of ndirect seneficial				
						Code V		Amount	(A) or (D)	Price	Owned Fo Reported Transactio (Instr. 3 an	on(s)			Ownership (Instr. 4)		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
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)		nsaction Derivative		Expiration Date (Month/Day/Year) or Securities Underlying Derivative Secu (Instr. 3 and 4)			es g Security	Derivative Security (Instr. 5) Ben Own Foll Rep	9. Numbe derivative Securities Beneficial Owned Following Reported	e s illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A) (D)		Date Exercisable		xpiration ate	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)			
Common Stock Option	\$0.26	11/17/2010		A		96,154 <sup>(1)</sup>		11/17/2010	11	1/17/2020	Common Stock	96,154	\$0	360,11	12	D	
Common Stock Option	\$0.26	11/17/2010		A		200,000 <sup>(2)</sup>		11/17/2010	11	1/17/2020	Common Stock	200,000	\$0	560,11	12	D	
Common Stock Option	\$0.26	11/17/2010		A		500,000 <sup>(3)</sup>		11/17/2011	11	1/17/2020	Common Stock	500,000	\$0	1,060,1	112	D	

## **Explanation of Responses:**

- 1. Such options were granted to Dr. Waksal in lieu of cash compensation under the Company's independent director compensation plan with such options vesting on the date of grant.
- $2.\ One-half\ of\ such\ options\ vest\ on\ the\ date\ of\ grant\ and\ one-half\ of\ such\ options\ will\ vest\ on\ 11/17/2011.$
- 3. Twenty-five percent (25%) of such options will vest on the first anniversary of the date of grant with the balance vesting at a rate of 1/36 for each month thereafter.

<u>Harlan W. Waksal</u> <u>11/19/2010</u>

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.