Instruction 1(b).

FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549	
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Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT	OF C	CHA	NGE	S IN	BEN	EFIC	IAL OWNERS	SHIP
obligations may continue. See									

**OMB APPROVAL** 3235-0287 Estimated average burden 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 ]							elationship o ck all applica Director	able)	Perso	on(s) to Issu 10% Ow			
(Last)	(F JTE 202/20	irst)		3. Date of Earliest Transaction (Month/Day/Year) 02/16/2012							Officer ( below)	give title		Other (specifical of the other	pecify			
SUITE 130					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable						
(Street) BRIDGEWATER NJ 08807											Line	X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)															
		Ta	ble I - Non-De	erivati	ve Se	ecurities	Acc	juired, Dis	sposed of	, or Ben	eficially	/ Owned						
1. Title of Security (Instr. 3)  2. Trans: Date (Month/I			е	Executi Day/Year) if any		A. Deemed Execution Date, f any Month/Day/Year)			ies Acquired (A) or Of (D) (Instr. 3, 4 and		5. Amoun Securities Beneficia Owned Fo	s lly ollowing	Form:	Direct Indirect E	7. Nature of Indirect Beneficial Ownership			
								Code V	Amount	(A) or (D)	Price	Transacti	Reported Transaction(s) (Instr. 3 and 4)			nstr. 4)		
			Table II - Der (e.g					ired, Disp options,			-	Owned			,			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	onversion Exercise (Month/Day/Year) rice of erivative	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.				6. Date Exerc Expiration D (Month/Day/\)	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	Jii(S)				
Common Stock Option	\$0.24	02/16/2012	02/23/2012	A		45,834 <sup>(1)</sup>		02/16/2012	02/16/2022	Common Stock	45,834	\$0	1,655,9	88	D			

## **Explanation of Responses:**

1. Such options were issued 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.

Harlan W. Waksal 02/24/2012

\*\* 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.