## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, [	D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	DVAL							
OMB Number:	3235-0287							
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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 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  Waksal Harlan					2. Issuer Name and Ticker or Trading Symbol SENESCO TECHNOLOGIES INC [ SNT ]									Check a	all applicable) Director		g Pers	g Person(s) to Issuer 10% Owner			
(Last) 303 GEOF SUITE 42	RGE STR	,	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 07/29/2009										Office below	er (give title v)		Other ( below)	specify	
(Street) NEW BRUNSW (City)			08901 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Individine)	vidual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
		Tabl	e I - Noi	n-Deriv	ative	Se	curiti	es Ac	quir	red, D	isp	osed o	f, or	Bene	efici	ally O	wne	ed			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					Execution Date,		Tr Co	3. 4. Securities Acquired Disposed Of (D) (Instr. 8) 5.					nd S	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
									C	ode	,	Amount		(A) or (D)	Pric	rico Tran		action(s) 3 and 4)			(Instr. 4)
Common Stock 07/29/3					/2009	2009			P		15,000 <sup>(1)</sup>		A	\$0.9		15,000			D		
Common Stock Warrants 07/29/2					/2009	2009			P		13,500	(2)	A	\$0		13,500			D		
Common Stock Warrants 07/29/					/2009			P		13,688 <sup>(2)</sup> A		\$	\$0 2		27,188		D				
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
Derivative Security (Instr. 3)	erivative ecurity or Exercise nstr. 3)  Conversion or Exercise (Month/Day/Year)  Price of Derivative Security  Date (Month/Day/Year)  (Month/Day/Year)  Execution Date, if any (Month/Day/Year)  (Month/Day/Year)		4. Transa Code ( 8)		ion of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expi (Mor	Date Expiration  Expiration Date  Month/Day/Year)  Date Expiration  Exercisable Date			Amount of Securities Underlying Derivative Security (Instr. and 4)		ount nber	8. Pric Deriva Securi (Instr.	itive ity	9. Number of derivative Securities Beneficially Owned Following Reported Transactions (Instr. 4)	Or Fo Di or (I)	D. wnership orm: irect (D) r Indirect ) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

- 1. On July 31, 2009, the reporting person entered into a Securities Purchase Agreement to purchase (i) 15,000 shares, (ii) 13,500 shares underlying a warrant with an exercise price of \$0.01, which warrant is exercisable immediately and (iii) 13,688 shares underlying a warrant with an exercise price of \$0.60, which warrant is exercisable six months from the date of issuance. The issuance of the foregoing is subject to stockholder approval and the satisfaction of other customary closing conditions.
- 2. Represents shares underlying warrants, the issuance of which is subject to shareholder approval and the satisfaction of other customary closing conditions.

07/31/2009

\*\* Signature of Reporting Person 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.