Waksal Harlan Form 4 February 23, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Washington, D.C. 20549

OMB APPROVAL

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2005

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5. Relationship of Reporting Person(s) to

if no longer subject to Section 16. Form 4 or Form 5

obligations

Check this box

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

may continue. See Instruction

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

NEW BRUNSWICK, NJ 08901

Waksal Harlan Issuer Symbol SENESCO TECHNOLOGIES INC (Check all applicable) [SNT] 3. Date of Earliest Transaction _X__ Director (Last) (First) (Middle) 10% Owner Officer (give title Other (specify (Month/Day/Year) below) 303 GEORGE STREET, SUITE 420

2. Issuer Name and Ticker or Trading

02/19/2010

(Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year) Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

					-	· •	•	•
		3.		•		5. Amount of	6. Ownership	
(Month/Day/Year)	Execution Date, if	Transaction	on(A) or Disp	posed o	of (D)	Securities	Form: Direct	Indirect
	any	Code (Instr. 3, 4 and 5)			Beneficially	(D) or	Beneficial	
	(Month/Day/Year)	(Instr. 8)				Owned	Indirect (I)	Ownership
	•					Following	(Instr. 4)	(Instr. 4)
				(Reported		
				(A)		Transaction(s)		
				or		` '		
		Code V	Amount	(D)	Price	(Ilisti. 5 and 4)		
02/19/2010		P	135,779	A	\$ 0 (1)	150,779	D	
	(Month/Day/Year)	any (Month/Day/Year)	(Month/Day/Year) Execution Date, if any Code (Month/Day/Year) (Instr. 8) Code V	(Month/Day/Year) Execution Date, if Transaction(A) or Displany Code (Instr. 3, 4 (Month/Day/Year) (Instr. 8) Code V Amount	(Month/Day/Year) Execution Date, if any Code (Instr. 3, 4 and 5) (Month/Day/Year) (Instr. 8) (A) or Code V Amount (D)	(Month/Day/Year) Execution Date, if any (Month/Day/Year) Code (Instr. 3, 4 and 5) (Month/Day/Year) (Instr. 8) (A) or Code V Amount (D) Price	(Month/Day/Year) Execution Date, if any (Month/Day/Year) (Instr. 8) Code (Instr. 3, 4 and 5) Execution Beneficially (Month/Day/Year) (Instr. 8) Owned Following Reported Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price (Instr. 3 and 4)	(Month/Day/Year) Execution Date, if any Code (Instr. 3, 4 and 5) Beneficially (D) or (Month/Day/Year) (Instr. 8) Owned Indirect (I) Following (Instr. 4) Code V Amount (D) Price (Instr. 3 and 4) Price (Month/Day/Year) (Instr. 3 and 4)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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)	Code	5. Number of onDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amoun Underlying Securiti (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amor Numl Share
Common Stock Warrant	\$ 1.01	02/19/2010		P	78,581	02/19/2010	06/30/2012	Common Stock	78
Common Stock Warrant	\$ 1.01	02/19/2010		P	130,969	02/19/2010	12/20/2012	Common Stock	130
Common Stock Warrant	\$ 1.01	02/19/2010		P	87,313	02/19/2010	06/30/2013	Common Stock	87
Common Stock Warrant	\$ 0.83	02/19/2010		P	130,969	02/19/2010	12/20/2012	Common Stock	130
Common Stock Warrant	\$ 0.83	02/19/2010		P	87,313	02/19/2010	06/30/2013	Common Stock	87
Convertible Debenture Due 12/31/2010	\$ 0.22 (2)	02/19/2010		P	\$ 523,876	02/19/2010	12/31/2010	Common Stock	2,33

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Waksal Harlan						
303 GEORGE STREET	X					
SUITE 420	Λ					
NEW BRUNSWICK, NJ 08901						

Signatures

Harlan W. 02/23/2010 Waksal

**Signature of Date Reporting Person

Reporting Owners 2

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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).
- Dr. Waksal entered into agreements to purchase an aggregate of 135,779 shares of common stock, 515,145 common stock warrants and \$523,876 of convertible debentures. The total purchase price was \$93,250, 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 (2) 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.