

Waksal Harlan
Form 4
November 19, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| | | | | |
|---|---------|----------|--|---|
| 1. Name and Address of Reporting Person * | | | 2. Issuer Name and Ticker or Trading Symbol | 5. Relationship of Reporting Person(s) to Issuer |
| Waksal Harlan | | | SENESCO TECHNOLOGIES INC [SNT] | (Check all applicable) |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) | <input checked="" type="checkbox"/> Director <input type="checkbox"/> Officer (give title below) |
| | | | 11/17/2010 | <input type="checkbox"/> 10% Owner <input type="checkbox"/> Other (specify below) |
| 303 GEORGE STREET, SUITE 420 | | | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| | | (Street) | | <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |
| NEW BRUNSWICK, NJ 08901 | | | | |
| (City) | (State) | (Zip) | | |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | | (A) or (D) | Price | | |
| | | | | Code | V | Amount | |

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

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 control number. SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction Code | 5. Number of Derivative Securities | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) |
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|

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| (Instr. 3) | Price of Derivative Security | (Month/Day/Year) | (Instr. 8) | Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | Date Exercisable | Expiration Date | Title | Amount Number Shares |
|---------------------|------------------------------|------------------|------------|--|------------------|-----------------|--------------|----------------------|
| | | | Code | V (A) (D) | | | | |
| Common Stock Option | \$ 0.26 | 11/17/2010 | A | 96,154 ⁽¹⁾ | 11/17/2010 | 11/17/2020 | Common Stock | 96,154 |
| Common Stock Option | \$ 0.26 | 11/17/2010 | A | 200,000 ⁽²⁾ | 11/17/2010 | 11/17/2020 | Common Stock | 200,000 |
| Common Stock Option | \$ 0.26 | 11/17/2010 | A | 500,000 ⁽³⁾ | 11/17/2011 | 11/17/2020 | Common Stock | 500,000 |

Reporting Owners

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

Signatures

Harlan W. Waksal
 11/19/2010
 Date
 Signature of Reporting Person

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).
- (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.

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.