

SENESCO TECHNOLOGIES INC  
 Form 3  
 May 20, 2014

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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. Date of Event Requiring Statement |  | 3. Issuer Name <b>and</b> Ticker or Trading Symbol  |  |
| Â FROST PHILLIP MD ET AL                  |         |          | (Month/Day/Year)                     |  | SENESCO TECHNOLOGIES INC [SNTI]   |  |
| (Last)                                    | (First) | (Middle) | 05/16/2014                           |  | 4. Relationship of Reporting Person(s) to Issuer  |  |
| 4400 BISCAYNE BOULEVARD                   |         |          |                                      |  | 5. If Amendment, Date Original Filed(Month/Day/Year)  |  |
| (Street)                                  |         |          |                                      |  | (Check all applicable)  |  |
| MIAMI,Â FLÂ US 33137                      |         |          |                                      |  | <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner<br><input type="checkbox"/> Officer <input type="checkbox"/> Other<br>(give title below)    (specify below)        |  |
| (City)                                    | (State) | (Zip)    |                                      |  | 6. Individual or Joint/Group Filing(Check Applicable Line)<br><input type="checkbox"/> Form filed by One Reporting Person<br><input checked="" type="checkbox"/> Form filed by More than One Reporting Person |  |

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 666,666   | I  | See Footnote <sup>(1)</sup>                           |

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

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
|--|--|---|--|--|---|

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|          | Date Exercisable | Expiration Date |              | Amount or Number of Shares |  | or Indirect (I) (Instr. 5) |                         |
|----------|------------------|-----------------|--------------|----------------------------|--|----------------------------|-------------------------|
| Warrants | 12/16/2013       | 06/16/2014      | Common Stock | 333,333 \$ 3               |  | I                          | See Footnote <u>(1)</u> |
| Warrants | 12/16/2013       | 12/16/2016      | Common Stock | 333,333 \$ 4               |  | I                          | See Footnote <u>(1)</u> |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |         |       |
|--|---------------|-----------|---------|-------|
|  | Director      | 10% Owner | Officer | Other |
| FROST PHILLIP MD ET AL<br>4400 BISCAYNE BOULEVARD<br>MIAMI, FL US 33137        | X             | X         |         |       |
| Frost Gamma Investments Trust<br>4400 BISCAYNE BOULEVARD<br>MIAMI, FL US 33137 | X             | X         |         |       |

## Signatures

Phillip Frost,  
M.D. 05/20/2014

\_\_Signature of Reporting Person Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 5(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) These securities are held by Frost Gamma Investments Trust, of which the Reporting Person is the trustee and Frost Gamma Limited Partnership is the sole and exclusive beneficiary. The Reporting Person is one of two limited partners of Frost Gamma, L.P. The general partner of Frost Gamma, L.P. is Frost Gamma, Inc., and the sole shareholder of Frost Gamma, Inc. is Frost-Nevada Corporation. The Reporting Person is also the sole shareholder of Frost-Nevada Corporation.

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.