

Sabourin John Paul
 Form 4
 August 25, 2009

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 *
 Polar Securities Inc.

2. Issuer Name and Ticker or Trading Symbol
 MINDSPEED TECHNOLOGIES, INC [MSPD]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 372 BAY STREET, 21ST FLOOR
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 08/19/2009

____ Director
 ____ Officer (give title below)
 ___X___ 10% Owner
 ____ Other (specify below)

TORONTO, A6 M5H 2W9
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 ___ Form filed by One Reporting Person
 ___X___ Form filed by More than One Reporting Person

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 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) | Code | V | Amount | (D) | Price |

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 | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying | 8. Price of Derivative Security | 9. Nu Deriv Secur |
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|--------------|--|-----------------------------------|---------------------------------|-------------------|
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|--------------|--|-----------------------------------|---------------------------------|-------------------|

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| (Instr. 3) | Price of Derivative Security | (Month/Day/Year) | (Instr. 8) | Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | Securities (Instr. 3 and 4) | (Instr. 5) | Bene- Own- Follo- Repo- Trans- (Instr. |
|------------|------------------------------------|------------------|------------|---|--------------------------------|------------|---|
| Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Polar Securities Inc. 372 BAY STREET 21ST FLOOR TORONTO, A6 M5H 2W9 | | X | | |
| Sabourin John Paul 2170 PINEEDLE ROW MISSISSAUGA, A6 L5C 1V3 | | X | | |
| Polar Capital CORP 372 BAY STREET 21ST FLOOR TORONTO, A6 M5H 2W9 | | X | | |

Signatures

/s/ John Paul Sabourin, Chief Investment Officer 08/24/2009

__Signature of Reporting Person

Date

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).

Remarks:

Polar Securities Inc., a company incorporated under the laws of Ontario, Canada, Polar Capital Corporation, a company incorporated under the laws of Ontario, Canada and John Paul Sabourin ceased to be 10% owners of the shares of Mindspeed Technologies, Inc. (the "Company") common stock (the "Securities") on August 19, 2009, due to the public offering of additional shares of the Securities on August 19, 2009 as described in the 8-K of the Company filed on August 14, 2009.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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