FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APPROVAL           |           |  |  |  |  |  |  |  |  |
|------------------------|-----------|--|--|--|--|--|--|--|--|
| OMB Number:            | 3235-0287 |  |  |  |  |  |  |  |  |
| Estimated average burd | en        |  |  |  |  |  |  |  |  |
| hours per response:    | 0.5       |  |  |  |  |  |  |  |  |

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*  ROGERS PAUL GUY                        |  |  |   |                            |         | 2. Issuer Name and Ticker or Trading Symbol MITCHAM INDUSTRIES INC [ MIND ] |   |   |  |                                      |                    |   |                 |                      | Check all   | applicable)<br>irector   | ng Per        | 10% Owner Other (specify below)  Development                      |  |
|--|--|--|---|----------------------------|---------|---|---|---|--|--------------------------------------|--------------------|---|-----------------|----------------------|---|--|---------------|---|--|
| (Last)<br>8141 SH  | st) (First) (Middle) 41 SH 75 SOUTH  |  |   |                            |         |   | 3. Date of Earliest Transaction (Month/Day/Year) 07/31/2008 |   |  |                                      |                    |   |                 |                      |   | fficer (give title<br>elow)<br>VP - Busines                    | ss Dev        |   |  |
| (Street) HUNTSV  | HUNTSVILLE TX 77342  |  |   |                            |         | 4. If Amendment, Date of Original Filed (Month/Day/Year)                    |   |   |  |                                      |                    |   |                 |                      | Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person 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. Trans Date (Month)                           |  |  |   |                            |         | ar) E   | Execution   | A. Deemed<br>xecution Date,<br>any<br>Month/Day/Year) |  | Transaction Disposed Code (Instr. 5) |                    | ities Acquired (A)<br>d Of (D) (Instr. 3, 4   |                 |                      | nd Se<br>Be<br>Ov   | Amount of<br>curities<br>neficially<br>ned Following<br>ported | Form<br>(D) o | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4) | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4)  |
|  |  |  |   |                            | Code    | v   | Amount  | ()<br>()  | A) or<br>O)  | Price                                | Tra                | insaction(s)<br>str. 3 and 4)   |                 |                      | (1130.4)  |  |               |   |  |
| MII Common Stock   |  |  |   |                            | 31/2008 |   |   |   | F  |                                      | 176                | D \$  |                 | \$16                 | .23   | 11,048   |               | D   |  |
|  | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |  |   |                            |         |   |   |   |  |                                      |                    |   |                 |                      |   |  |               |   |  |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)                              | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security  | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Da<br>if any<br>(Month/Day/\) | Date, Transact<br>Code (In |         |   |   |   | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                                      |                    | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative<br>Security (Instr.<br>and 4) |                 |                      | 8. Price<br>Derivati<br>Security<br>(Instr. 5)  | derivative<br>Securities                                       | / E           | Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|  |  |  |   |                            | Code    | v   | (A)   | (D)   | Date<br>Exercisa   |                                      | Expiration<br>Date | Title   | or<br>Nui<br>of | ount<br>nber<br>ares |   |  |               |   |  |

**Explanation of Responses:** 

Remarks:

/s/ Billy F. Mitcham, Jr., 08/04/2008 Attorney-in-Fact

\*\* 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.