FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	VAL				
	OMB Number:	3235-0287				
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l	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* <u>CAPPS ROBERT P</u>						2. Issuer Name and Ticker or Trading Symbol MITCHAM INDUSTRIES INC [ MIND ]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner					
(Last) 8141 SH	(F 75 SOUTH	First)		3. Date of Earliest Transaction (Month/Day/Year) 05/27/2010									Officer (give title below)  Chief Fina		Other (spe below) ncial Officer		pecify			
(Street) HUNTSVILLE TX 77342 (City) (State) (Zip)					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transa Date (Month/D)  MII Common Stock  05/27/					saction	2A. Deem			3. Transac Code (Ir	3. 4. Secu Transaction Dispos Code (Instr. 5)		ties Acqu Of (D) (Ir	ired (A)	or 5. Amou 4 and Securitie Benefici Owned F		nt of s ally ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
					27/201	.0			Code	v	Amount 6,000	nount (A) or (D) A		ice \$6.4	Reported Transaction(s) (Instr. 3 and 4)		D		(Instr. 4)	
			Table II -						uired, Di , options						Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if if any (Month/Day	Date,	4. Transa Code ( 8)		of		6. Date Exercisa Expiration Date (Month/Day/Year			7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	re es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable		opiration	Title	Amo or Num of Shai	ber						
Option to Purchase Common	\$6.4	05/27/2010		Ì	A		15,000		(2)	0	5/27/2020	MII Common Stock	15,0	000	\$6.4	15,000	0	D		

## **Explanation of Responses:**

- 1. Restricted Stock vests 1/3 upon grant, 1/3 on May 27, 2011 and 1/3 on May 27, 2012.
- 2. Options vest 1/3 upon grant, 1/3 on May 27, 2011 and 1/3 on May 27, 2012.

## Remarks:

/s/ Robert P. Capps

06/01/2010

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.