

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* SHAW L EDWARD JR (Last) (First) (Middle) 9 CARRIAGE HOUSE LANE (Street) MAMARONECK NY 10543-1005 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol MINE SAFETY APPLIANCES CO [MSA]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 05/05/2010	
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> 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. 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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock, no par value	05/05/2010		M		6,144	A	\$9.0295	233,631	D	
Common Stock, no par value	05/05/2010		M		5,238	A	\$12.3754	238,869	D	
Common Stock, no par value	05/05/2010		M		4,851	A	\$7.0736	243,720	D	
Common Stock, no par value	05/05/2010		M		4,122	A	\$13.5675	247,842	D	
Common Stock, no par value								500,000	I	2010 GRAT
Common Stock, no par value								9,921	I	By GRAT
Common Stock, no par value								40,430 ⁽¹⁾	I	By GRAT (Wife)
Common Stock, no par value								263,443 ⁽²⁾	I	By Wife
Common Stock, no par value								135,440	I	By Wife as Trustee

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Amount or Number of Shares
Non-statutory Stock Option	\$7.0736	05/05/2010		M		4,851		11/15/2000	05/15/2010	Common Stock, no par value	4,851	\$7.0736	0	D	
Non-statutory Stock Option	\$9.0295	05/05/2010		M		6,144		11/15/2001	05/15/2011	Common Stock, no par value	6,144	\$9.0295	0	D	
Non-statutory Stock Option	\$13.5675	05/05/2010		M		4,122		11/10/2002	05/10/2012	Common Stock, no par value	4,122	\$13.5675	0	D	
Non-statutory Stock Option	\$12.3754	05/05/2010		M		5,238		05/13/2004	05/13/2013	Common Stock, no par value	5,238	\$12.3754	0	D	

Explanation of Responses:

1. Reflects redistribution of 113,988 shares from Wife's Grantor Retained Annuity Trust to shares held indirectly by Wife.
2. Reflects increase in shares due to distribution from Wife's Grantor Retained Annuity Trust.

Remarks:

Douglas K. McClaine,
Attorney in Fact

05/07/2010

** 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.