Thompson Mark Form 4 January 13, 2009

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL** 

**OMB** 3235-0287 Number:

January 31, Expires: 2005

Estimated average burden hours per response... 0.5

if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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(b).

(Last)

1.Title of

1. Name and Address of Reporting Person \* Thompson Mark

(First)

(Middle)

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

**AMERICAN SCIENCE & ENGINEERING INC [ASEI]** 

(Check all applicable)

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

01/10/2009

X Director 10% Owner Other (specify Officer (give title

C/O AMERICAN SCIENCE & ENGINEERING, INC., 829 MIDDLESEX TURNPIKE

(Street)

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

6. Individual or Joint/Group Filing(Check

6. Ownership 7. Nature of

Beneficial

Ownership

(Instr. 4)

Applicable Line)

5. Amount of

\_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

BILLERICA, MA 01821

(City) (State) (Zip)

2. Transaction Date 2A. Deemed

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

4. Securities Acquired

Form: Direct Indirect Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of (D) Securities (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially (D) or (Month/Day/Year) (Instr. 8) Owned Indirect (I) Following (Instr. 4) Reported (A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price Common 01/10/2009 396 2,037 D Stock

3.

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

#### Edgar Filing: Thompson Mark - Form 4

1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Titl		8. Price of	9. Nu
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Transacti Code (Instr. 8)	ofNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			Amou Under Securi (Instr.	rlying	Derivative Security (Instr. 5)	Deriv Secur 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

Director 10% Owner Officer Other

Thompson Mark C/O AMERICAN SCIENCE & ENGINEERING, INC. 829 MIDDLESEX TURNPIKE BILLERICA, MA 01821

X

## **Signatures**

Michelle Bielunis, Attorney-in-Fact 01/13/2009

\*\*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).

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.

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