Callerame Jo	oseph									
Form 4 December 3	0, 2009									
EODM A							OMB APPROVAL			
	UNITED STATE	UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549						3235-0287		
Check th if no long subject to Section 1 Form 4 c Form 5 obligatio may cont <i>See</i> Instr 1(b).	section 17(a) of the	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 20(k) of the Investment Company Act of 1940								
(Print or Type]	Responses)									
1. Name and A Callerame J	Address of Reporting Person <u>*</u> oseph	Symbol AMERICAN	Issuer Name and Ticker or Trading nbol AERICAN SCIENCE & IGINEERING INC [ASEI]				5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last)	(First) (Middle)	3. Date of Earlie		1		Director X Officer (give		10% Owner Other (specify		
C/O AMER ENGINEEF MIDDLESF	(Month/Day/Ye 12/30/2009	(Month/Day/Year) 12/30/2009				XOfficer (give titleOther (specify below) below) Senior Vice President				
BILLERIC	4. If Amendmer Filed(Month/Day	-	al		 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person 					
(City)	(State) (Zip)	Table I - N	on-Derivativ	e Securi	ities Acq	uired, Disposed of	, or Beneficial	ly Owned		
1.Title of Security (Instr. 3)	any	on Date, if Trans Code	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common Stock	12/30/2009	Code M <u>(1</u>	e V Amour	t (D) A	Price \$ 11.35	22,445	D			
Common Stock	12/30/2009	S <u>(1)</u>	6,000	D	\$ 79.8	16,445	D			

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

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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. Transactio Code (Instr. 8)	5. Number on f 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 Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Options	\$ 11.35	12/30/2009		M <u>(1)</u>	6,000	09/20/2002	09/20/2011	Common Stock	6,000

Reporting Owners

Relationships					
Other					

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).

(1) The transactions reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 17, 2009.

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.