BROOKS RHONDA L

Check this box

if no longer

subject to

Section 16.

Form 4 or

obligations

may continue.

Form 5

Form 4 January 29, 2010

FORM 4

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

OMB APPROVAL OMB

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5. Relationship of Reporting Person(s) to

Issuer

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

2. Issuer Name and Ticker or Trading

30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

BROOKS RHONDA L Symbol ARVINMERITOR INC [ARM] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) X_ Director 10% Owner Officer (give title Other (specify ARVINMERITOR, INC., 2135 01/28/2010 below) WEST MAPLE ROAD (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting TROY, MI 48084-7186 (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities 5. Amount of 6. Ownership 7. Nature of TransactionAcquired (A) or Security (Month/Day/Year) Execution Date, if Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price Common 7,960 \$0 01/28/2010 $12,272^{(3)}$ Α D (2) (1) Stock Held by trust of Common $10,107 \stackrel{(5)}{=}$ I which Ms. Stock Brooks is trustee 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 (9-02)

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number.

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. Transactic Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	7. Title and A Underlying S (Instr. 3 and	Securities	8. Price of Derivative Security (Instr. 5)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		
Restricted Share Units	\$ 0					<u>(4)</u>	<u>(4)</u>	Common Stock	15,900		

Reporting Owners

Reporting Owner Name / Address	Relationships						
•	Director	10% Owner	Officer	Other			
BROOKS RHONDA L ARVINMERITOR, INC. 2135 WEST MAPLE ROAD TROY, MI 48084-7186	X						

Signatures

Rhonda L. Brooks, By: Barbara Novak, Attorney-in-fact

01/29/2010

**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).
- (1) Award of restricted stock as equity compensation.
- (2) inapplicable
- (3) Includes 7,960 shares of restricted stock that are held by the issuer to implement restrictions on transfer unless and until certain conditions are met.

Restricted share units vest and are paid or settled after the earliest of (1) six years from the date of award, (2) ten days after retirement from the Board after reaching age 72 and having at least 3 years of service as a director, and (3) the date of ceasing to be a director by reason of the antitrust laws, compliance with conflict of interest policies, death, disability or other circumstances that the Board deems not to be adverse to the best interests of ArvinMeritor.

Reporting Owners 2

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(5) Reflects change in ownership of 3,500 shares from direct to indirect, held by trust.

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