### BROOKS RHONDA L

Form 4

February 18, 2010

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL** 

**OMB** Number:

3235-0287

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 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		2. Issuer Name and Ticker or Trading Symbol ARVINMERITOR INC [ARM]					5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)				
(Last)	(First) (M	iddle)	3. Date of Earliest Transaction				••				
•		*	(Month/Day/Year) 02/18/2010				_X_ Director Officer (giv below)		6 Owner er (specify		
(Street)		4. If Amendment, Date Original					6. Individual or Joint/Group Filing(Check				
TROY, MI 48084-7186			Filed(Month/Day/Year)					Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(State)	Zip)	Table	e I - Non-D	erivative S	Securi	ties Ac	quired, Disposed o	of, or Beneficia	lly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution any	emed on Date, if 'Day/Year)	Code (Instr. 8)	4. Securi onAcquired Disposed (Instr. 3,	l (A) c l of (D	))	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)	
Common Stock	02/18/2010			M	2,400 (1)	A	\$ 0 (2)	14,672 (3)	D		
Common Stock								10,107	I	Held by trust of which Ms. Brooks is trustee	

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

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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. 5. Number Transaction Derivative Code Securities (Instr. 8) 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)		8. Pr Deriv Secu (Inst
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Restricted Share Units	\$ 0 (5)	02/18/2010		M	2,400	<u>(5)</u>	(5)	Common Stock	2,400	2

# **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 02/18/2010

\*\*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) Vesting of restricted share units
- (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.
- (5) Restricted share units converted on a one-to-one basis into common stock on the vesting date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 2

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