

BROOKS RHONDA L
 Form 4
 February 18, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL
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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 30(h) of the Investment Company Act of 1940

(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) (Middle)
 ARVINMERITOR, INC., 2135
 WEST MAPLE ROAD
 (Street)

3. Date of Earliest Transaction
 (Month/Day/Year)
 02/18/2010

Director 10% Owner
 Officer (give title below) Other (specify below)

TROY, MI 48084-7186
 (City) (State) (Zip)

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 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 Ownership (Instr. 4)
Common Stock	02/18/2010		M	(A) 2,400 (1)	\$ 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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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. 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 Underlying Securities (Instr. 3 and 4)	8. Pr Deriv Secur (Instr.	
				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	⁽⁵⁾	⁽⁵⁾	Common Stock	2,400

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.

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