

# FORM 4

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

OMB APPROVAL

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## 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

OMB Number: 3235-0287  
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(Print or Type Responses)

1. Name and Address of Reporting Person Rooke Andrew K.		2. Issuer Name and Ticker or Trading Symbol MRI INTERVENTIONS, INC. [MRIC]		5. Relationship of Reporting Person(s) to Issuer  (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below)	
(Last) (First) (Middle) C/O MRI INTERVENTIONS, INC., ONE COMMERCE SQUARE, STE 2550		3. Date of Earliest Transaction (Month/Day/Year) 03/31/2014			
(Street) MEMPHIS, TN 38103		4. If Amendment, Date Original Filed (Month/Day/Year)		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person	

(City) (State) (Zip) **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 Indirect Beneficial Ownership (Instr. 4)	
			Code	V	Amount	(A) or (D)				Price
Common Stock	03/31/2014		A		4,153	A	\$ 1.24 (L)	945,569	D	
Common Stock							186,304	I	By Trust	
Common Stock							186,304	I	By Trust	
Common Stock							186,304	I	By Trust	
Common Stock							186,304	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							104,077	I	By Trust	
Common Stock							260,102	I	By Withington Foundation	
Common Stock							500,000	I	By Payne Partners LLC	
Common Stock							2,058,207	I	By Rooke Fiduciary Management	

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

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

### 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	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following	10. Ownership Form of Derivative Security: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
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					(A) or Disposed of (D) (Instr. 3, 4, and 5)					Reported Transaction(s) (Instr. 4)	or Indirect (I) (Instr. 4)	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Rooke Andrew K. C/O MRI INTERVENTIONS, INC. ONE COMMERCE SQUARE, STE 2550 MEMPHIS, TN 38103	X	X		

## Signatures

/s/ Oscar Thomas, by Power of Attorney for Andrew K. Rooke  Signature of Reporting Person		04/02/2014  Date
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## 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).

These shares were issued pursuant to the issuer's Non-Employee Director Compensation Plan, in payment of fees owed to the reporting (I) person under such plan. The shares were issued at a price of \$1.24 per share, representing the volume-weighted average price of the issuer's common stock for the 5-trading day period ending March 31, 2014.

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.