

FORM 4

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

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

(Print or Type Responses)

1. Name and Address of Reporting Person * Rooke Andrew K. <small>(Last) (First) (Middle)</small> C/O MRI INTERVENTIONS, INC., 5 MUSICK <small>(Street)</small> IRVINE,, CA 92618 <small>(City) (State) (Zip)</small>	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 type="checkbox"/> 10% Owner <small>Officer (give title below) Other (specify below)</small>
3. Date of Earliest Transaction (Month/Day/Year) 12/30/2016		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
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	12/30/2016		A		1,801	A	\$ 2.64 (1)	27,982	D	
Common Stock								210,000	I	By trust
Common Stock								4,657	I	By trust
Common Stock								4,657	I	By trust
Common Stock								4,657	I	By trust
Common Stock								4,657	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								2,601	I	By trust
Common Stock								12,353	I	By Withington Foundation
Common Stock								12,500	I	By Payne Partners LLC
Common Stock								51,455	I	By Rooke Fiduciary Management

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. 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. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						Date Exercisable	Expiration Date					

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Rooke Andrew K. C/O MRI INTERVENTIONS, INC. 5 MUSICK IRVINE,, CA 92618	X			

Signatures

/s/ Richard F. Mattern, by Power of Attorney for Andrew K. Rooke	01/03/2017
<small>Signature of Reporting Person</small>	<small>Date</small>

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 Amended and Restated 2013 Incentive Compensation Plan, in payment of fees owed to the reporting person under such (1) plan. The shares were issued at a price of \$2.64 per share, representing the volume-weighted average price of the issuer's common stock for the five-trading day period ended December 30, 2016.

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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