FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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

	_			
2. Date of Event	3. Issuer Name and Ticker or Trading Symbol			
(Month/Day/Year)				
02/27/2012	Person(s) t (CheckX Directo	o Issuer all applicabl orX 10% Owner Oth	e) 6 er	
			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person	
Table I - Nor	-Derivativ	e Securit	ies Beneficially Owned	
		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)	
186,304	186,304		By trust	
186,304	186,304		By trust	
186,304	186,304		By trust	
186,304	186,304		By trust	
104,077	104,077		By trust	
104,077	104,077		By trust	
104,077	104,077		By trust	
104,077	104,077		By trust	
104,077	104,077		By trust	
104,077	104,077		By trust	
104,077	104,077		By trust	
104,077		I	By trust	
260,102		I	By Withington Foundation	
	Requiring Statement (Month/Day/Year) -02/27/2012 Table I - Non 2. Amount Securities Owned (Instr. 4) 186,304 186,304 186,304 186,304 104,077 104,077 104,077 104,077 104,077 104,077 104,077	Requiring Statement (Month/Day/Year)	Requiring Statement (Month/Day/Year) 02/27/2012 4. Relationship of Report	

Common Stock	500,000	I	By Payne Partners LLC
Common Stock	2,058,207		By Rooke Fiduciary Management

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

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise	Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security Or (I)	Security: Direct (D) or Indirect (I) (Instr. 5)		
Warrants (right to buy)	(1)	06/30/2013	Common Stock	400,000	\$ 0.01	I	By Rooke Fiduciary Management	
Warrants (right to buy)	(1)	07/27/2013	Common Stock	400,000	\$ 0.01	I	By Rooke Fiduciary Management	
Warrants (right to buy)	<u>(1)</u>	08/29/2013	Common Stock	125,000	\$ 0.01	ı	By Rooke Fiduciary Management	

Reporting Owners

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

Signatures

/s/ Oscar Thomas, by power of attorney for Andrew K. Rooke	02/27/2012
Signature of Reporting Person	Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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) The shares subject to this warrant are immediately exercisable.

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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