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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* Rao Meera (Last) (First) (Middle)						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year)										(Check all ap) Direc		olicable) ctor er (give title w)		Person(s) to Issuer 10% Owner Other (specify below)	
79 GREAT OAKS BLVD						01/07/2013										CFO					
(Street) SAN JOSE CA 95119				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)										 Individual or Joint/Group Filing (Check Applicat Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person 				son		
(City)	(Si		Zip)																		
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 3. 4. Securities Acquired (A) or 5. Amount of 6. Ownership 7. Nature																					
1. Title of Security (Instr. 3) Date (Month/Day/						Execution Date,							urities Acquired (A sed Of (D) (Instr. 3,			3, 4 Secur		ities icially d	For (D) Ind	Ownership rm: Direct or lirect (I) str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
											v	Amoun		A) or D)	Price	,	Reported Transaction(s) (Instr. 3 and 4)				(1150. 4)
Common Stock 01/07/20					2013)13			M ⁽¹⁾			500)	Α	\$13.53		92,531			D	
Common Stock 01/07/20					2013)13			S ⁽¹⁾			500		D	\$22	.38	92,031			D	
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)	if any	emed ion Date, /Day/Year)	4. Transac Code (Ir 8)	ction Number			Expirati	6. Date Exercisab Expiration Date (Month/Day/Year)			Amount of		str. 3	8. Pr of Deri Secu (Inst	vative rity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	V (A)		(D)	Date Exercisa	ble	Expi Date	iration	Title	or Nu of	umber						
Non- Qualified Stock Option (right to buy)	\$13.53	01/07/2013			M ⁽¹⁾			500	01/05/20	10	01/0	5/2016	Comm Stock		500	\$(0.0	16,500		D	

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

Meera Rao ** Signature of Reporting Person 01/09/2013 Date

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

* 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).

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

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 Number.