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) 79 GREAT OAKS BLVD					M [N 3. [Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 02/06/2013										telationship of Reporting P eck all applicable) Director X Officer (give title below) CFO			10% O Other (s below)	wner
(Street) SAN JOS (City)			95119 Zip))	4. 1	Line) X Form file										Joint/Group Filing (Check Applicable filed by One Reporting Person filed by More than One Reporting n				
Table I - Non-Der 1. Title of Security (Instr. 3) 2. Transactic Date (Month/Day/\text{'Value})					2 Ear) i	2A. Deemed Execution Date,			3. Transaction Code (Instr.			Disposed of, or Benef 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			or 5. Am		ount of ties cially	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership
						(MOIIIII/Day/Teal			Code	• \	,	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)
Common Stock				02/06/201	3				S ⁽¹)		3,575	D	\$22.	8888	80	6,972		D	
Common Stock				02/06/2013					A ⁽²)		624	A	\$(0.0	83	7,596		D	
Common Stock				02/07/201	2013				S ⁽³)		248	D	\$2	23.7 8		7,348		D	
Common Stock				02/07/201)13				M ⁽⁴	1)		16,000	A	\$13	3.53	10	103,348		D	
Common Stock				02/07/2013					S ⁽⁴)		16,000	D	\$24.2	964	5) 81	37,348		D	
		Ta	able I	II - Deriva (e.g., p								posed of, converti				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	Execuif any	BA. Deemed Execution Date,			5. Numbe of Derivativ. Securities Acquired (A) or Disposed of (D) (Instr. 3, and 5)		6. Date Exel Expiration I (Month/Day			ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		C C S	3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A) (D)	Da Ex	te ercisa	ıble	Expiration Date	Title	Amor or Numl of Share	ber					
Non- Qualified Stock Option (right to buy)	\$13.53	02/07/2013			M ⁽⁴⁾			16,00	00 01	/05/20	010	01/05/2016	Commor Stock	16,0	000	\$0.0	0.0		D	

Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of performance units (restricted stock units) originally granted on February 25, 2010. The Performance was met and the shares were released per board approval on February 5, 2013.
- 2. Equitable stock dividend adjustment approved by the Board of Director as a result of dividend Payment to shareholders on December 28, 2012. Stock dividends will release according to the same vesting schedule as the original grants.
- 3. Shares sold to pay tax obligations resulting from the release of restricted stock units.
- 4. In accordance with the reporting person's 10b5-1 trading plan.
- 5. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$24.00 to \$24.73. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: Meera

02/08/2013

<u>Rao</u>

** Signature of Reporting Person 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.

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