FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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

Name and Address of Reporting Person* Rao Meera							2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR								all app	olicable) ctor	10%	Person(s) to Issuer 10% Owner	
(Last) 79 GRE	(Fi AT OAKS E	rst) (3. Date of Earliest Transaction (Month/Day/Year) 12/05/2012								X	Officer (give title below)		Other below FO	(specify)			
(Street) SAN JOS (City)	·					4. If Amendment, Date of Original Filed (Month/Day/Year)									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 - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye.					on 2 Fear) i	2A. Deemed Execution Date,			3. Transaction Code (Instr. 8)			ies Acqui	red (A) o	or 5. Am and 5) Secur Benef Owne		nount of rities ficially	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price				(Instr. 4)	(Instr. 4)	
Common Stock 12/05/2012							2		M ⁽¹⁾		500	A	\$13	13.53		2,531	D		
Common Stock 12/05/2012					12	12		S ⁽¹⁾		500	D	\$21.3	\$21.382(2)		02,031	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		4. Transa Code (I 8)			6. Date Exercis Expiration Dat (Month/Day/Ye		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Secu (Inst	vative irity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
						ode V		(D)	Date Exercisa		Expiration Date	Title	Amoun or Number of Shares						
Non- Qualified Stock Option (right to buy)	\$13.53	12/05/2012			M ⁽¹⁾			500	01/05/20	10	01/05/2016	Common Stock	500	\$0	0.0	30,367	D		

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. 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 \$21.37 to \$21.39. 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 Rao

12/07/2012

** 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.

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.