FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number: 3235-028							
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

1. Name and Address of Reporting Person* Rao Meera (Last) (First) (Middle) 79 GREAT OAKS BLVD						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 08/29/2013									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title below) below) CFO				
(Street) SAN JOS (City)			95119 (Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									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-Der 1. Title of Security (Instr. 3) 2. Transa Date (Month/D						tion 2A. Deeme			Transaction Dispos Code (Instr. and 5)			of, or rrities Ac ed Of (D)	quired	(A) or	5. Am Secur Benet	ount of ities ficially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amoun	ot (A) or)	Price			(Instr. 4)	(Instr. 4)		
Common Stock				08/29/2				M ⁽¹⁾		1,42	29	A (\$12.92	75,198		D			
Common Stock				08/29/2				S ⁽¹⁾		1,42	29	D S	\$30.06	73,769		D			
Common Stock				08/29/2	08/29/2013				S ⁽¹⁾		5,00	00	D S	\$29.52	68,769		D		
Common Stock			08/30/2	2013			S ⁽¹⁾		5,00	00	D S	\$30.51	6	3,769	D				
		T	able II						uired, Di						wned				
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 (II 8)			6. Date Exe Expiration (Month/Day	Date		Amoun Securiti Underly Derivati	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Price rivative curity str. 5)	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)		
						v	(A)	(D)	Date Exercisable		piration ate	Title	Amo or Num of Shar	ber					
Non- Qualified Stock Option (right to buy)	\$12.92	08/29/2013			M ⁽¹⁾			1,429	12/28/2012	01.	/05/2016	Commo	1,4	29	\$0.0	0	D		

Explanation of Responses:

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

By: Saria Tseng For: Meera <u>09/03/2013</u>

** Signature of Reporting Person Date

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

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.

 $^{^{\}star}$ 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).