FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number: 3235-028							
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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) 02/11/2013									heck all ap Dire	ector cer (give title ow)	10 Ot	to Issuer % Owner ner (specify low)	
79 GREAT OAKS BLVD (Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. If A	If Amendment, Date of Original Filed (Month/Day/Year)									ne) X For For	ual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - N	lon-Deriv	ative S	Secu	ırities	s Acc	uired,	Disp	posed o	f, or	Bene	eficia	ally Owr	ned			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day					y/Year)	Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquire Disposed Of (D) (Instrant 5)				Secu Bene Own	mount of rities eficially ed owing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)				
									Code	v	Amount		A) or D)	Price	Repo	orted saction(s) r. 3 and 4)	((
Common Stock 02/11/2					013				A		37,398(1)		A	\$0	.0	23,781	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)	titve Conversion or Exercise (Month/Day/Year) 3) Price of Derivative Security Execution Date, if any (Month/Day/Year) 8		4. Transac Code (II 8)	Privative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Shares		str. ount	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (or India (I) (Inst	Beneficial Ownershi ect (Instr. 4)			

Explanation of Responses:

1. 25% of the Restricted Stock Units shall vest at 1/8th quarterly following the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date. Additionally, 75% of the Restricted Stock Units were granted and shall be subject to satisfaction of performance-based vesting criteria based on achievement of certain long term Company performance targets, as determined by the Compensation Committee of the Company, and additional time vesting subsequent to the achievement of those performance targets, provided that the Grantee continues to be a Service Provider from the grant date through each applicable vesting date.

<u>Meera Rao</u> <u>02/13/2013</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.

^{*} 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).