FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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

Name and Address of Reporting Person*				2. Iss	2. Issuer Name and Ticker or Trading Symbol							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Rao Meera					MONOLITHIC POWER SYSTEMS INC [MPWR]							`	Director Officer (give title below)			Owner (specify	
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 02/04/2014							X			below		
(Street) SAN JOSE CA 95119				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					
(City)	_												Form filed by More than One Reporting Person				
		Table	e I - Non-Deriv	ative	Secu	urities A	cquir	ed, D	isposed o	f, or B	enefic	cially	Own	ed			
1. Title of Security (Instr. 3)			2. Transactio Date (Month/Day/Y	ear) E	Execution Date,		3. Transaction Code (Instr. 8)						Secur Bene Owne	ficially ed	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			02/04/20	14	4		S ⁽¹⁾		1,703	D	\$3	\$32.19		19,360	D		
Common	Stock	02/04/20	.4			A		40,198(2)	A \$0		0.0	89,558		D			
Common	02/04/20	14			A		8,937(3)	A	\$	\$0.0		98,495	D				
Common Stock 02/05/201				4		S ⁽¹⁾		7,648	D	\$31	\$31.1686		90,847	D			
Common Stock 02/06/201				14	4		S ⁽¹⁾		411	D	\$3	\$31.27		00,436	D		
		Та	ble II - Derivat (e.g., p						posed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (ction	5. Numb of Derivativ Securitie Acquired (A) or Disposed of (D) (Instr. 3, and 5)	6. Date Exe Expiration (Month/Day		rcisable and Date	7. Title Amoun Securit Underly Derivat Securit 3 and 4	and t of ies ying ive y (Instr	8. P of Deri Seci	Price erivative ecurity estr. 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)	
				Code	v	(A) (D	Date Exe	e rcisablo	Expiration e Date	Title	Amour or Number of Shares	er					

Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 2. On February 14, 2012, the reporting person was granted a target of 22,243 shares of restricted stock units subject to satisfaction of pre-determined, performance-based vesting criteria. On February 4, 2014, the Company's Board of Directors determined that those performance criteria for the restricted stock units had been satisfied, which resulted in 16,148 additional shares being achieved and granted to the reporting person. In addition, 1,807 shares were granted as a result of an equitable stock dividend adjustment approved by the Board of Directors on December 28, 2012. Of the restricted stock units that were awarded, 20,101 will vest immediately and 20,097 will vest quarterly in the next two years.
- 3. 1/8 of the Restricted Stock Units shall vest 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, 26,812 shares of 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.

By: Saria Tseng For: Meera <u>02/06/2014</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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