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

1. Name and Address of Reporting Person*  Xiao Deming  (Last) (First) (Middle)  79 GREAT OAKS BLVD  (Street)  SAN JOSE CA 95119						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year) 02/18/2014  4. If Amendment, Date of Original Filed (Month/Day/Year)									elationship of Reporting Person(s) to Issuer eck all applicable)  Director 10% Owner Coefficer (give title below) below)  Pres. of MPS Asia Operations  Idividual or Joint/Group Filing (Check Applicable)  K Form filed by One Reporting Person Form filed by More than One Reporting				Owner (specify ) 11S Applicable
(City)	(Sta	ate) (Z	Zip)												Pers	on			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da					/Year) Execu		Deemed ution Date, / th/Day/Year)				Disposed	4. Securities Acquired (A Disposed Of (D) (Instr. 3 5)			d Secur	icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) (D)	or Pr	ice	Repor Trans	Reported Transaction(s) (Instr. 3 and 4)			(,
Common Stock 02/13					014				<b>J</b> <sup>(1)</sup>		620	A	\$2	24.42	9 8	85,909			
Common Stock																7,655			by Spouse
	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 Date (Month/Day/Year) 3A. Deemed Execution Date, if any (Month/Day/Year) (Month/Day/Year) 8) Code (II 8)			5. Nu of Deriv Secui Acqu (A) or Dispo of (D) (Instr and 5	rities ired osed . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Exercisable Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Inst. 3 and 4)		or. Or.	Price f erivative ecurity nstr. 5)	9. Number of derivative Securities Seneficially Owned Following Reported Transaction (Instr. 4)	Owner Form Direct or In (I) (In 4)	: t (D) tirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

## Explanation of Responses:

1. Acquired through the Company's qualified ESPP program.

By: Meera Rao For: Deming Xiao

02/21/2014

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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).

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.