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* Xiao Deming					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR MPWR								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify				
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 08/15/2014								X	Officer (give title Other below) below; Pres. of MPS Asia Operation)	
(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting			
(City)	(Sta		(ip)	/ativa		unidi o o d			Di		f ar D	anofic	برااء	Perso			
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/You				on 2 Year) is	2A. Deemed Execution Date,			3. 4. Securit Transaction Disposed Code (Instr. 5)			s Acqui	red (A) o	or 5. Amo 4 and Securi Benefi Owned		ount of frities Ificially (6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
									v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)
Common Stock 08/15/2				14				J ⁽¹⁾		205	A	\$29.	.7755 5		8,367	D	
Common Stock														2	2,470	I	by Spouse
		Та	ble II - Deriva (e.g., p							osed 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 (8)		5. Numb of Derivativ Securitie Acquired (A) or Dispose of (D) (Instr. 3, and 5)	/e (Expiration I e (Month/Day/		ate	7. Title and Amount of Securities Underlying Derivative Security (Insti 3 and 4)		Secu	vative Securities urity Beneficially tr. 5) Owned Following Reported	Securities Beneficially Owned Following Reported Transaction	Ownership Form: Direct (D) or Indirect (I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A) (D		Date Exercisable		Expiration Date	Title	Amoun or Numbe of Shares					

Explanation of Responses:

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

By: Saria Tseng For: Deming Xiao

08/26/2014

** 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.