FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:								

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								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 02/03/2014									belo	,	Other below sia Operatio	,
(Street) SAN JOS (City)		9 ate) (Z	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	lividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	eI-	Non-Deriv	ative	Seci	uriti	ies A	cquir	ed, Di	sposed o	f, or B	enefi	cially	Own	ed		
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Y	ear) i	2A. Deemed Execution Date		Date,	3. Transaction Code (Instr		4. Securities Acquired (A) Disposed Of (D) (Instr. 3,				5. Amount of		6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		Repo Trans		Instr. 4)	(Instr. 4)
Common	02/03/201	14			S ⁽¹⁾		1,938	D	\$32.	533(2)	5	53,023	D					
Common Stock 0					14			S ⁽³⁾		2,458	D	\$32	\$32.19		50,565	D		
Common Stock 02/04/2					4			S ⁽³⁾		291	D	\$32	32.19		7,655	I	by Spouse	
		Та	ble	II - Derivat (e.g., pı							osed of, convertib				wned	l		
1. Title of Derivative Security (Instr. 3)		3. Transaction Date (Month/Day/Year)	Exed if ar	Deemed cution Date, ny nth/Day/Year)	Code	nsaction de (Instr.		Numbe curities quired) or sposed (D) estr. 3, 4	Exp (Mo	ate Exe iration nth/Day		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		of Deri Sec (Ins	Price rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A) (D)		Date Exercisable		Expiration Date	Title	Amour or Number of Shares	er				

Explanation of Responses:

- 1. In accordance with the reporting person's $10\mathrm{b}5\text{-}1$ trading plan.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$32.20 to \$32.74. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Deming Xiao

02/05/2014

** 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.