FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burd	en							
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				<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									all app	olicable) ctor	g Person(s) to	Owner
(Last) 79 GREA	(First) (Middle) REAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 02/06/2014							X	Officer (give title below) Pres. of MPS Asia		below	,
(Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)								Line) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea					2A. Deemed Execution Date,			3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			or 5. A Seci Ben Owr		amount of urities neficially ned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
						Code V		Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)		
Common Stock 02/06/20				4				S ⁽¹⁾		6,855	D	\$32		98,811		D	
Common Stock			02/10/201	4				S ⁽²⁾		2,186	D \$33.2		2061	96,625		D	
Common Stock			02/10/201	4				S ⁽²⁾		103	D	\$33.2	\$33.2033		96,522	D	
Common Stock			02/10/201	4				S ⁽¹⁾		2,673 D		\$33.8997(3)		و	93,849	D	
Common Stock															7,655	I	by Spouse
		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)		saction (Instr.	5. Numb of Derivativ Securitie Acquired (A) or Dispose of (D) (Instr. 3, and 5)		Expi (Mor	ration	ercisable and Date y/Year)	7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		of Deri Sec (Ins		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	e V	(A)	(D)	Date Exer		Expiration e Date	Title	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. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 3. 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 \$33.39 to \$34.09. 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.

By: Saria Tseng For: Deming Xiao

02/11/2014

** Signature of Reporting Person

Doto

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.