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]							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) 08/15/2013							X	Officer (give title below) Pres. of MPS Asia Operations)	
(Street) SAN JOSE CA 95119 (City) (State) (Zip)				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line) X	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
	`		e I - Non-Deriv	/ative	Seci	urities	Acaui	ired. D)isposed o	f. or E	Benefic	ially	Owne			
1. Title of S	2. Transaction Date (Month/Day/Ye	2A Exc ear) if a	2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Securities Disposed Of	ed (A) or	or 5. A Secu		mount of urities eficially 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			08/15/201	3			S		10,503	D	\$29.35	537(1)	68,485		D	
Common Stock													8	,157	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)	4. Transaction Code (Instr. 8)		5. Numl of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)	Expiration ve (Month/Da es d			7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		8. Pr of Deri Secu (Inst	derivative Securities Fity Seneficia Owned Following Reported	Following Reported Transaction(Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A) (I		ate xercisabl	Expiration e Date	Title	Amoun or Numbe of Shares					

Explanation of Responses:

1. 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 \$29.35 to \$29.37. 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 08/19/2013 Xiao

** 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.