FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	OMB APPROVAL							
OMB Number:	3235-0287							
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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]									eck all D	iship of Report applicable) irector		10% C		
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 08/09/2012									X b	elow) Pres. of MPS		below)		
(Street) SAN JOS (City)			5119 Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year) $08/10/2012$								e) <mark>X</mark> F	·				
		Tabl	e I - N	on-Deriv	ative S	Secu	ırities Acc	uired,	Disp	posed o	f, or	Bene	ficial	lly Ov	vned				
1. Title of Security (Instr. 3)			2. Transac Date (Month/Da	.	Exec if an	Deemed ution Date, y ith/Day/Year)	Transaction Dis			ecurities Acquired osed Of (D) (Instr. 5)			Se Be Ow	Amount of curities neficially wined	Fori (D) (irect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount		A) or D)	Price	Re Tra	Following Reported Transaction(s) (Instr. 3 and 4)			str. 4)	
Common Stock 08/				08/09/2	.012		M ⁽¹⁾		41,32	9	A	\$8.0	5	51,329		Ι	by Spouse		
Common Stock 08/09.					2012			S ⁽¹⁾		41,329		D	\$20.	9	10,000	0,000		by Spouse	
		Та	ble II				ties Acqu warrants,							Own	ed				
1. Title of Derivative Security (Instr. 3)		3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	ion Date,	Date, Transac Code (I		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)			8. Price of Derivati Security (Instr. 5	derivative Securities Beneficiall	y [Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A) (D)	Date Exercisal		Expiration Date	Title	or	ount nber res						

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

By: Saria Tseng For: Deming <u>04/11/2013</u> 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.