Xiao Deming Form 4 May 12, 2010

# FORM 4

#### **OMB APPROVAL**

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

January 31, Expires: 2005

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

Common

Stock

05/11/2010

(Print or Type Responses)

1. Name and Address of Reporting Person ** Xiao Deming			2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
			MONOLITHIC POWER SYSTEMS INC [MPWR]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	Director 10% Owner			
6409 GUADALUPE MINES ROAD			(Month/Day/Year) 05/11/2010	_X_ Officer (give title Other (specify below) Pres. of MPS Asia Operations			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person			
SAN JOSE, CA 95120				Form filed by More than One Reportin Person			

(City)	(State)	(Zip) Tab	le I - Non-	Derivative Securities Acqui	red, Disposed of,	or Beneficiall	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)  (A) or Amount (D) Price	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	05/11/2010		S	$\begin{array}{ccc} 1,390 & \$ \\ \frac{(1)}{21.7682} \end{array}$	96,279	D	

232 (1) D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

16,021

by Spouse

#### Edgar Filing: Xiao Deming - Form 4

#### Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exer		7. Title		8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secur
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration		or		
						Exercisable	Date	Title	Number		
						Excicisable	Date		of		
				Code V	(A) (D)				Shares		

# **Reporting Owners**

Relationships Reporting Owner Name / Address

> Officer Director 10% Owner Other

Pres. of MPS Xiao Deming

6409 GUADALUPE MINES ROAD Asia SAN JOSE, CA 95120 **Operations** 

### **Signatures**

By: Rick Neely For: 05/12/2010 Deming Xiao

\*\*Signature of Reporting Person Date

### **Explanation of Responses:**

- 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).
- (1) Shares sold to pay tax obligations resulting from the vesting of restricted stock.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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