Xiao Deming Form 4 February 10, 2011

FORM 4

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

OMB APPROVAL

OMB 3235-0287 Number:

January 31, Expires: 2005

0.5

Estimated average burden hours per response...

Check this box if no longer subject to Section 16. Form 4 or

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

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b). (Print or Type Responses)

(Last)

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading Xiao Deming

(Middle)

Symbol

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

MONOLITHIC POWER SYSTEMS INC [MPWR]

> Director 10% Owner _X__ Officer (give title _ Other (specify

(Month/Day/Year)

below) below) 02/10/2011 Pres. of MPS Asia Operations

(Street)

4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Applicable Line)

Filed(Month/Day/Year)

3. Date of Earliest Transaction

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

SAN JOSE, CA 95120

(First)

6409 GUADALUPE MINES ROAD

(City)	(State)	(Zip) Tab	le I - Non-	Derivative	Secu	rities Acqui	red, Disposed of,	or Beneficial	y 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)	omr Dispos (Instr. 3, 4	ed of	` ′	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	02/10/2011		S	1,393 (1)	D	\$ 15.7442	150,035	D	
Common Stock	02/10/2011		S	267 (1)	D	\$ 15.7442	15,573	I	by Spouse

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

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.

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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	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration D	ate	Amoun	t of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ies	(Instr. 5)	Bene
	Derivative				Securities			(Instr. 3	3 and 4)		Own
	Security				Acquired						Follo
	•				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A manuat		
									Amount		
						Date	Expiration		Or Number		
						Exercisable	Date	Title Number of			
				C + V	(A) (D)						
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Officer Director 10% Owner Other

Xiao Deming Pres. of MPS 6409 GUADALUPE MINES ROAD Asia

SAN JOSE, CA 95120 **Operations**

Signatures

By: Saria Tseng For: 02/10/2011 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 units.
- (2) Represent shares owned by the reporting person's spouse.

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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