Xiao Deming Form 4 December 20, 2011

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB 3235-0287

Washington, D.C. 20549 Number:

January 31, Expires: 2005

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response... 0.5

if no longer subject to Section 16. Form 4 or Form 5

obligations

Check this box

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

may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

Common

Stock (1) Common

Stock

12/19/2011

(Print or Type Responses)

1 Name and Address of Departing D

1. Name and Address of Reporting Person				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]				5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
	(Last) (First) (Middle)			3. Date of Earliest Transaction (Month/Day/Year)					Director 10% OwnerX_ Officer (give title Other (specify			
6409 GUADALUPE MINES ROAD			12/19/2011					below) below) Pres. of MPS Asia Operations				
(Street)				4. If Amendment, Date Original					6. Individual or Joint/Group Filing(Check			
	CANLOGE	CA 05120	Filed(Month/Day/Year)					Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting				
SAN JOSE, CA 95120									Person			
	(City)	(State)	(Zip)	Table	e I - Non-De	erivative S	Securi	ties Acq	uired, Disposed o	f, or Beneficial	ly Owned	
	1.Title of	2. Transaction Date	2A. Dee	med	3.	4. Securit	ies Ac	equired	5. Amount of	6. Ownership	7. Nature of	
	Security			on Date, if Transaction(A) or Disposed of			l of	Securities	Form: Direct	t Indirect		
	(Instr. 3)		any		Code	(D)			Beneficially	(D) or	Beneficial	
			(Month/	(Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5)		5)	Owned	Indirect (I)	Ownership			
									Following	(Instr. 4)	(Instr. 4)	
							(A)		Reported Transaction(s)			
							or		(Instr. 3 and 4)			
					Code V	Amount	(D)	Price	(1115ti. 3 tilit 4)			

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

 $S^{(2)}$

141

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.

21,766

142,610

14.3

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D

by Spouse

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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	TransactionNumber		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 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 Nur of	Number		
				C + V	(A) (D)						
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Officer 10% Owner Other Director

Xiao Deming Pres. of MPS 6409 GUADALUPE MINES ROAD Asia

SAN JOSE, CA 95120 **Operations**

Signatures

By: Meera Rao For: 12/20/2011 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).
- 1/16 of the Restricted Stock Units shall vest quarterly following the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date.
- (2) Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- (3) 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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