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Xiao Demir Form 4 May 10, 20	-										
FORM	Washington, D.C. 20549								OMB AF OMB Number:	irs per	
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(Print or Type	Responses)										
			2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]					5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(1			3. Date of Earliest Transaction (Month/Day/Year) 05/10/2011					Director 10% Owner Officer (give title Other (specify below) Pres. of MPS Asia Operations			
				4. If Amendment, Date Original Filed(Month/Day/Year)				6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person			
SAN JOSE	C, CA 95120							Form filed by Mo Person	ore than One Re	porting	
(City)	(State)	(Zip)	Tab	le I - Non-J	Derivative	e Secu	rities Acqu	iired, Disposed of,	or Beneficial	ly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution any	Date, if	Code (Instr. 8)	4. Securi oror Dispo (Instr. 3, Amount	sed of 4 and (A) or		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	05/10/2011			S <u>(1)</u>	1,388	D	\$ 16.1406	148,553	D		
Common Stock	05/10/2011			S <u>(1)</u>	240	D	\$ 16.1409	22,235	Ι	by Spouse	

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

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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 Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	4. Transacti Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	7. Titl Amou Under Secur (Instr.	unt of rlying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secu Bene Owne Follo Repo Trans (Instr
			Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Xiao Deming			Pres. of MI	PS			
6409 GUADALUPE MINES ROAD			Asia				
SAN JOSE, CA 95120			Operations				
Signaturas							

Signatures

By: Saria Tseng For: 05/10/2011 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.