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Check this box if no longer subject to SECURITIES Section 16. SECURITIES									3235-0287 January 31, 2005 Iverage		
(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)			
(Me			3. Date of Earliest Transaction (Month/Day/Year) 08/02/2012					Director 10% Owner X_ Officer (give title Other (specify below) below) Pres. of MPS Asia Operations			
Filed				. If Amendment, Date Original iled(Month/Day/Year)				 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting 			
SAN JOSE, CA 95119 Form filed by More than One Reporting Person											
(City)	(State)	(Zip)	Table	e I - Non-D	erivative	Secur	ities Acq	uired, Disposed of	, or Beneficial	ly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deeme Execution any (Month/Da	Date, if	3. Transactic Code (Instr. 8) Code V	(Instr. 3,	ispose	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		
Common Stock	08/02/2012			S <u>(1)</u>	1,732	D	\$ 19	129,137	D		
Common Stock	08/03/2012			S <u>(1)</u>	236	D	\$ 19.24	128,901	D		
Common Stock								10,000	Ι	by Spouse	

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

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number.

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. Transactio Code (Instr. 8)	5. 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 Amoun Underly Securiti (Instr. 3	nt of ying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
			Code V	(A) (D)	Date Exercisable	Expiration Date	Title M	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
Xiao Deming 79 GREAT OAKS BLVD SAN JOSE, CA 95119 Signatures			Pres. of MPS Asia Operations					
•								
By: Saria Tseng For: Deming Xiao		08/03/2012						
**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.