FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Xiao Deming.					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR]								NC	(Check all a		olicable) ctor	10%	Person(s) to Issuer 10% Owner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 11/02/2011									X	belo	,	Othe belo Asia Operati	<i>'</i>	
(Street) SAN JOS (City)	N JOSE CA 95120			4. If Amendment, Date of Original Filed (Month/Day/Year)								r)	6. Indi Line) X	Form	idual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				Execution Date,				3. Transac Code (I 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			4 and Secu		ficially d	6. Ownership Form: Direct (D) or Indirect (I)	of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	1	Repo Trans		(Instr. 4)	(Instr. 4)		
Common Stock 11/02/201					1				S ⁽¹⁾		1,364	D	\$11	.9499	1-	44,183	D		
Common Stock															2	22,140	I	by Spouse ⁽²⁾	
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)	rivative curity or Exercise Price of Derivative Security Date (Month/Day/Year) if any (Month/Day/Year) Execution Date, 1 (Month/Day/Year) if any (Month/Day/Year) Execution Date, 1 (Month/Day/Year) Execution Date, 1 (Month/Day/Year) if any (Month/Day/Year) Execution Date, 1 (Month/Day/Year) if any (Month/Day/Year) if				saction e (Instr			Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Share:		of Der Sec (Ins	rice ivative urity etr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership		

Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- $2. \ \mbox{Represent shares owned}$ by the reporting person's spouse.

By: Meera Rao For: Deming Xiao 11/02/2011

** Signature of Reporting Person Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.