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]						5. Relationship of Report (Check all applicable) Director		ng Person(s) to Issuer 10% Owner Other (specify		
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 02/03/2015						below	<i>(</i>)	below) sia Operations		
(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting				
(City)	(St	ate) (2	Zip)								Person				
		Tabl	e I - Non-Deriva	_			red, D	_							
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Yea	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.					5) Securi Benefi Owned	ties cially	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
						Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)	
Common	Stock		02/03/2015			A		102,204(1)	Α	\$0.0	23	36,357	D		
Common Stock			02/03/2015	15		S ⁽²⁾		2,013	D	\$47.21	\$47.21 234,3		D		
Common Stock			02/03/2015	15		S ⁽²⁾		103	D	\$47.21	\$47.21 234,		D		
Common Stock		02/03/2015	15		A		8,071(3)	A	\$0.0	24	12,312	D			
Common Stock			02/05/2015	15		S		17,132(2)	D	\$47.795	54 22	225,180 D			
Common Stock			02/05/2015	15		S		6,911(2)	(2) D \$47.79		56 21	8,269	D		
Common Stock 02/			02/05/2015			S		820(2)	D	\$48.020)2 21	7,449	D		
Common Stock			02/03/2015	15		S ⁽²⁾		7	D	\$47.21	1	,699	I	by Spouse	
Common	Stock	02/03/2015	15		S ⁽²⁾		120	D	\$47.21	1 1	,579	I	by Spouse		
		Та	ble II - Derivativ (e.g., pu			•	,	posed of, o		,	Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	rcise (Month/Day/Year) f ive	Execution Date,	1. 5. Numbe of Derivative Securities (A) or Disposed of (D) (Instr. 3, and 5)		tive ties red sed 3, 4	oiration	ercisable and ı Date ıy/Year)	7. Title and Amount Securiti Underly Derivati Security 3 and 4)	t of control of contro	of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
				Code	V (A)	Dat (D) Exe	te ercisabl	Expiration le Date		Amount or Number of Shares					

Explanation of Responses:

- 1. On February 11, 2013, the reporting person was granted a target of 36,187 shares of restricted stock units subject to satisfaction of pre-determined, performance-based vesting criteria. On February 3, 2015, the Company's Board of Directors determined that those performance criteria for the restricted stock units had been satisfied, which resulted in 66,017 additional shares being achieved and granted to the reporting person. Of the restricted stock units that were awarded, 51,101 will vest immediately and 51,103 will vest quarterly in the next two years.
- 2. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 3. 1/12 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.

By: Saria Tseng For: Deming <u>Niao</u> 02/05/2015

Date

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

^{**} Signature of Reporting Person

 $^{^{\}star}$ 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.

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