FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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]									all app	plicable) ctor		Owner
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 02/04/2014								X	belo	,	Other below sia Operatio	,
(Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	el-	Non-Deriv	ativ	e Seci	urities A	Acqı	uirec	l, Di	sposed o	f, or B	enefi	cially	Own	ed		
Date				2. Transaction Date (Month/Day/Yo		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)			4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			and 5) Secu Bene Own			6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
								Со	de	v	Amount	(A) or (D)	Pric	e	Follo Repo Trans (Instr		(Instr. 4)	(Instr. 4)
Common Stock				02/04/2014					A		59,137(1)	A	\$	\$0.0		09,702	D	
Common Stock				02/04/2014					A		12,403(2)	A	\$	\$0.0		22,105	D	
Common Stock			02/05/201	.014			S	S ⁽³⁾		15,647	D	\$31	\$31.1686		06,458	D		
Common Stock 0			02/06/201	4		S	S ⁽³⁾		792	D	\$3	\$31.27		05,666	D			
Common Stock															7,655	I	by Spouse	
		Та	ble	II - Derivati (e.g., pu							osed of, convertib				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	3A. Deemed Execution Date, if any (Month/Day/Year)		5. Numb of Derivativ Securitie Acquirer (A) or Dispose of (D) (Instr. 3, and 5)		ve (es d	Expira	tion l	rcisable and Date //Year)	Amount of Securities Underlying Derivative Security (In 3 and 4)		of Der Sec (Ins		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	• V	(A) (D		Date Exercisable		Expiration Date	Title	or Numb of Share					

Explanation of Responses:

- 1. On February 14, 2012, the reporting person was granted a target of 32,723 shares of restricted stock units subject to satisfaction of pre-determined, performance-based vesting criteria. On February 4, 2014, the Company's Board of Directors determined that those performance criteria for the restricted stock units had been satisfied, which resulted in 23,756 additional shares being achieved and granted to the reporting person. In addition, 2,658 shares were granted as a result of an equitable stock dividend adjustment approved by the Board of Directors on December 28, 2012. Of the restricted stock units that were awarded, 29,570 will vest immediately and 29,567 will vest quarterly in the next two years.
- 2. 1/8 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. Additionally, 37,208 shares of Restricted Stock Units were granted and shall be subject to satisfaction of performance-based vesting criteria based on achievement of certain long term Company performance targets, as determined by the Compensation Committee of the Company, and additional time vesting subsequent to the achievement of those performance targets, provided that the Grantee continues to be a Service Provider from the grant date through each applicable vesting date.
- 3. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Deming Xiao 02/06/2014

** 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.