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]							(Check all app Direct		ctor 10% C			
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 05/02/2014							X	below) Pres. of MPS Asia		below	below)	
(Street) SAN JOS	E CA	4. If A	4. If Amendment, Date of Original Filed (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							
(City)	(Sta	ate) (Z	Zip)										Pers	•			
		Tabl	e I - Non-Deriv	ative	Secu	ırities A	quired	l, Di	sposed o	f, or Be	enefi	cially	Owne	ed			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/	Year) if	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)				5. Amount of Securities Beneficially Owned	rities ficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) or (D)	Price	•			(Instr. 4)	(Instr. 4)	
Common	Stock		05/02/20	14			S ⁽¹⁾		2,041	D	\$36	.7695	8	33,868	D		
Common	Stock		05/05/20	14			S ⁽¹⁾		265	D	\$36	.2501	8	33,603	D		
Common	Stock		05/05/20	14			S ⁽¹⁾		13	D	\$3	6.25	8	33,590	D		
Common	Stock		05/05/20	14			S ⁽¹⁾		820	D	\$36	.2501	8	32,770	D		
Common	Stock		05/06/20	14			S ⁽¹⁾		795	D	\$36	.4108	8	31,975	D		
Common	Stock		05/02/20	14			S ⁽¹⁾		870	D	\$36	.7695		6,428	I	by Spouse	
Common Stock			05/05/20	14			S ⁽¹⁾		236	D	\$36	\$36.2501		6,192	I	by Spouse	
Common Stock 05/				14			S ⁽¹⁾		12	D	\$3	\$36.25		6,180	I	by Spouse	
		Та	ble II - Derivat (e.g., p				,		osed of, convertib			•	wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	on Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (I 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exer Expiration I (Month/Day			7. Title and Amount Securiti Underly Derivati Security 3 and 4)	of es ing ve	of Der Sec (Ins	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
				Code	v	(A) (D)	Date Exerci	sable	Expiration Date		Amour or Numbe of Shares	er					

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Deming <u>Niao</u> 05/06/2014

** Signature of Reporting Person Date

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

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.

^{*} 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).