FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average burden							
hours per response:	0.5						

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									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify)			
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 05/24/2017								7	belo	,	below Asia Operatio	ı)
(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. In Line	Form filed by One Reporting Person Form filed by More than One Reporting			
(City)	(St		Zip)											Pers			
		Tabl	eI-N	lon-Deriv	ative \$	Secu	rities Ad	quired,	Dis	posed of	f, or l	3ene	eficiall	y Own	ed		
1. Title of Security (Instr. 3)			2. Transact Date (Month/Day		Execution Date,		3. 4. Secur Transaction Code (Instr.) 8)						Secui Bene Owne		6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
									v	Amount	(A (D) or)	Price			(Instr. 4)	(Instr. 4)
Common Stock 05/2				05/24/2	.017		S ⁽¹⁾		30		D	\$95.44	1	1,101	I	by Spouse	
Common Stock														286,725		D	
		Та	ble II	- Derivat (e.g., pu			ties Acq warrants							Owned	ı		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year		4. Transac Code (I 8)			6. Date Exercisab Expiration Date (Month/Day/Year)		ite	nd 7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		o D S (I	Price f erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A) (D)	Date Exercisa	Expiration isable Date		Title	or	ount mber ires				

Explanation of Responses:

1. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.

Deming Xiao 05/25/2017

** 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).