FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number: 3235-028								
Estimated average burden								
hours per response:								

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					MC	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				
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 11/04/2016								X	belo	,	Other below sia Operatio	<i>'</i>	
(Street) SAN JOS (City)			5119 Zip))	4. If <i>i</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	lividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	eI-	Non-Deriv	ative	Secu	ıritie	es Ac	quire	d, Di	sposed o	f, or B	enefi	cially	Own	ed		
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/)	rear) i	Execution		· 1	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			4 and Securi		ficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	•	Repo		(Instr. 4)	(Instr. 4)
Common Stock 1				11/04/20	16				S ⁽¹⁾		356	D	\$76	.3183	2	85,489	D	
Common Stock 11/				11/07/20	16			S ⁽¹⁾		6,757	D	\$77	.8829	2	78,732	D		
Common Stock															172	I	by Spouse	
		Та	ble l	II - Derivat (e.g., pı							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	Deemed ution Date, y nth/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expira (Mont	e Exer ation I h/Day		7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		of Der Sec (Ins		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	10. 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	Amour or Number of Shares	er				

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.

By: Saria Tseng For: Deming Xiao 11/08/2016

** 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.