FORM	4

Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations may continue.

See Instruction 1(b).

(Print or Type Responses)

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287 Expires: February 28, 2018 Estimated average burden hours per response 0.5

1. Name and Address of I	2. Issuer Name and Ticker or Trading Symbol								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Xiao, Deming	MONOLITHIC POWER SYSTEMS (MPWR)							Director 10% Own			% Owner			
(Last) (First) (Middle) 5808 Lake Washington Blvd NE			3. Date of Earliest Transaction Required to be Reported				4. If Amendment, Date Original Filed(Month/Day/Year)			<u>X</u> Officer (give			Other (specify below)	
Kirkland, WA 98033	(Street)		- (Month/Day/Year) 02/03/2020							 Individual or Joint/Group Filing (Check Applicable Lin <u>X</u> Form filed by One Reporting Person Form filed by More than One Reporting Person 				
(City)	(State)	(Zip)		Table I - Non-Derivative Securities Acquired, D										
1. Title of Security (Instr. 3)		2. Trans- action Date	2A. Deemed Execution Date, if any (Month/ Day/ Year)	3. Trans- action Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)				5. Amount of Securities Beneficially Owned Following Reported	6. Owner- ship Form: Direct (D) or	7. Nature of Indirect Beneficial Owner-		
		(Month/ Day/ Year)		Code	v	Amour	nt	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)	(D) of Indirect (I) (Instr. 4)	ship (Instr. 4)	
Common Stock		02/03/20		S (1)			2,904	D	\$17.	3.8936	278,065	D		
Common Stock											1,101	I	by Spouse	

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).

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control Number.

FORM 4 (continued)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g. puts, calls, warrants, options, convertible securities)

(e.g. puts, cans, warrants, options, convertible securities)															
1. Title of Derivative Security (Instr. 3)	2. Conver- sion or Exercise Price of Deri- vative Security	Date	Deemed Execut- ion	acti	ion de	5.Number of E ative Securit Acquired (A Disposed of (Instr. 3, 4 at	ies	cisable and Underlying		7. Title and Amor Underlying Sec (Instr. 3 and 4)	unt of curities	of Deriv- ative Secur- ity (Instr.	9. Number of deriva- tive Se- curities Benefici- ally Own- ed foll- owing	ship Form of Deriv- ative Security: Direct	of Indirect Benefi- cial Owner- ship
			(Month/ Day/ Year)					Date Exer- cisable	Expira- tion Date	Title	Amount or Number of Shares	5)	Reported Transac- tion(s) (Instr. 4)	(D) or Indirect (I) (Instr. 4)	(Instr. 4)
				Code	v	(A)	(D)								

Explanation of Responses: See continuation page(s) for footnotes

** 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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By: Saria Tseng For: Deming Xiao

02/03/2020

** Signature of Reporting Person

Date

Xiao, Deming

5808 Lake Washington Blvd NE Kirkland, WA 98033

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