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* Sciammas Maurice					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]							5. 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) 02/05/2018							X	Officer (give title below) Sr. V.P.of Sales a		below)
(Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line) X	•			
		Tabl	e I - Non-Deriv	ative	Secu	urities A	cquir	red, Di	isposed o	f, or E	Benefic	ially	Own	ed		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Y	ear) Ex	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed O Code (Instr.		s Acquired (A) or of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount	(A) or (D)	Price	R		owing orted saction(s) r. 3 and 4)	(Instr. 4)	(Instr. 4)
Common Stock 02/05/20				.8			S ⁽¹⁾		4,057	D	\$113.	8541	3	56,338	D	
Common											2,000	I	by Family Trust			
		Та	ble II - Derivat (e.g., p						oosed of, convertib				wned	I		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	on Date se (Month/Day/Year)		4. Transa Code (I 8)		5. Numb of Derivativ Securitie Acquired (A) or Disposed of (D) (Instr. 3, and 5)	Expiration (Month/Day es			7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		of Deri Sec	Price rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A) (D	Dat) Exe	te ercisable	Expiration Date	Title	Amoun or Numbe of Shares					

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: Maurice Sciammas 02/05/2018

** 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.