FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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

1. Name and Address of Reporting Person* Blegen Theodore (Last) (First) (Middle) 79 GREAT OAKS BLVD						Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] Date of Earliest Transaction (Month/Day/Year) 04/30/2018									eck all app Dired	olicable) ctor er (give title w)		Owner r (specify	
(Street) SAN JOS (City)			5119 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Y Form	ual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - I	Non-Deriv	ative \$	Secu	ritie	s Ac	quired,	Dis	posed o	f, or E	Benef	icial	ly Own	ed			
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/)					/Year)	Execution Date,			Transaction Disposed Code (Instr. 5)			ties Acquired (A) d Of (D) (Instr. 3, 4			d Secur	icially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) (D)	or Pi	ice		rted action(s) . 3 and 4)			
Common Stock 04/30/20						18		S ⁽¹⁾		232	D \$1		120.5	5 5	6,436	D			
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	se (Month/Day/Year) if any (Month/Day/Year)			ransaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Date Expiration Date Expiration Date Expiration Expiration Date Expiration Exercisable			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amour or Numbe of Title Shares		tr.	. Price of Derivative Decurity Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership		

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: Bernie
Blegen
05/01/2018

** 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.