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						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]								(Ch	eck all app Direc	'	ng Pe	erson(s) to I 10% O Other (wner
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 10/25/2018									X belo	v)	FO	below)	
(Street)					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	6. Individual or Joint/Group Filing (Check Applicable Line)				
SAN JOS	AN JOSE CA 95119														X Form filed by One Reporting Person Form filed by More than One Reporting				
(City) (State) (Zip)															Pers	on			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,			Transaction Disposed Code (Instr. and 5)			ırities Acquired (A sed Of (D) (Instr. 3,			r 5. Am Secur Benef Owne Follo	ties Fo cially (D		Ownership m: Direct or irect (I) str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amoun	t (A) (D)	or	Price	Repor Trans	Reported Transaction(s) (Instr. 3 and 4)		ur. 4)	(1150.4)
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Derivative Security	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any		4. Transact Code (In 8)		ion of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		. 3	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	ly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
					Code	v	(A)	(D)	Date Exercisable		piration te	Title	or	ount nber res					
Restricted Stock Units ⁽¹⁾	(1)	10/25/2018	(1)		Α		48,000		(1)		(1)	Common Stock	48,	000	\$0.0	48,000		D	

Explanation of Responses:

1. On October 25, 2018, the reporting person was granted a target number of 9,600 performance units and can earn up to a maximum of 48,000 performance units subject to satisfaction of share price targets ranging from \$140 to \$172 over the performance periods from October 25, 2018 to December 31, 2023, as determined by the Compensation Committee of the Company. All performance units are subject to time based vesting and require service through January 1, 2024 or an earlier change in control. Once vested, performance units subject into shares of common stock on a 1-for-1 basis and one-third of the resulting shares have no sales restrictions and are sellable on January 1, 2024, one-third of the shares have sales restrictions until January 1, 2025 and one-third of the shares have sales restrictions until January 1, 2025.

By: Saria Tseng For: Bernie T. 10/29/2018

Blegen

** 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.