FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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 ar Neely (Last) 6409 GU (Street)	3. E	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year) 11/10/2010  4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Relationship of Reporting Person(s) to Issuer Check all applicable) Director 10% Owner  X Officer (give title Other (specify below) Sr. VP and CFO  6. Individual or Joint/Group Filing (Check Applicable ine)				Owner (specify ) Applicable				
SAN JOS (City)	(State) (Zip)													X	Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Table	e I	- Non-Deriv	ative	e Seci	ıritie	s A	cqui	red, D	isposed o	f, or E	Benefic	ially	Owne	ed		
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Yea					ar) E	2A. Deemed Execution Date if any (Month/Day/Yea			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			and 5) Secu Bene Own		ficially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code V		Amount	(A) or (D)	Price		Repo Trans			(111341. 4)
Common Stock 11/10/					)				<b>S</b> <sup>(1)</sup>		695(2)	D	\$15.4	15.4294		29,305	D	
Common Stock 11/11			11/11/2010	)			S <sup>(1)</sup>	П	1,180	D	\$15.85	\$15.8588 <sup>(3)</sup>		28,125	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)			saction e (Instr.	5. Nu of Deriv Secu Acqui (A) o Dispo of (D (Instrand !	vative rities rired r osed ) r. 3,	Ex (M)	piration onth/Day	//Year)	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)  Amou or Numb of Title Share:		t		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

## Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- $2. \ Shares \ sold \ to \ pay \ tax \ obligations \ resulting \ from \ the \ vesting \ of \ restricted \ stock \ units.$
- 3. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$15.78 to \$16.09. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

Rick Neely

11/12/2010

\*\* 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.