June 12, 2009	
As filed with the Securities and Exchange Commission	on June 12, 2009.
Registration No. 333	
UNITED STATES	
SECURITIES AND EXCHANGE COMMISSION	
WASHINGTON, D.C. 20549	
FORM S-8	
REGISTRATION STATEMENT UNDER THE SECU	URITIES ACT OF 1933
ANGEION CORPORATION	
(Exact name of registrant as specified in its charter)	
Minnesota	41-1579150
(State or other jurisdiction of incorporation or organization)	(I.R.S. Employer Identification No.)
350 Oak Grove Parkway	
Saint Paul, Minnesota 55127	
(Address of principal executive offices and zip code)	
ANGERON GODDON INVO	
ANGEION CORPORATION	
2007 Stock Incentive Plan	

ANGEION CORP/MN

(Full title of the Plan)

Form S-8

William J. Kullback Chief Financial Officer Angeion Corporation 350 Oak Grove Parkway Saint Paul, Minnesota 55127 651-484-4874 Copy to:
Thomas G. Lovett, IV
Lindquist & Vennum, P.L.L.P.
4200 IDS Center
80 South 8th Street
Minneapolis, Minnesota 55402

612-371-3211

(Name, address and telephone number, including area code, of agent for service)

**Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the exchange Act. (Check one):

Large accelerated filer o

Accelerated filer o

Non-accelerated filer o

Smaller reporting company x

(Do not check if a smaller reporting company)

CALCULATION OF REGISTRATION FEE

Title of

Securities to be Registered
Common Stock, par value \$.01 per share

Amount to be Registered (1)
Registered (1)
Proposed Maximum Offering Proposed Maximum
Aggregate Offering Price Aggregate Offering Price \$4335,000
\$335,000\$
\$18.70

(1) Estimated solely for the purpose of determining the registration fee pursuant to Rule 457(c) and (h) and based upon the closing price of the Company s Common Stock on the Nasdaq Global Market on June 10, 2009.

INTRODUCTION

This Registration Statement on Form S-8 is filed by Angeion Corporation, a Minnesota corporation, to register 100,000 shares of its common stock issuable under its 2007 Stock Incentive Plan.

INCORPORATION OF CONTENTS OF REGISTRATION STATEMENT BY REFERENCE

A Registration Statement on Form S-8 (File No. 333-145653) was filed with the Securities and Exchange Commission (SEC) on August 23, 2007 covering the registration of 250,000 shares of the Common Stock under the Company s 2007 Stock Incentive Plan (the 2007 Plan). A Registration Statement on Form S-8 (File No. 333-152015) to register an additional 300,000 shares was filed on June 30, 2008. Pursuant to General Instruction E of Form S-8 and Rule 429, this Registration Statement is being filed to register an additional 100,000 shares authorized

under the 2007 Plan. The contents of the prior Registration Statements are incorporated herein by reference.

PART I

Pursuant to the note to Part I of Form S-8, the information required by Items 1 and 2 of Form S-8 is not filed as a part of this Registration Statement.

PART II

Item 3. Incorporation of Documents by Reference.

The following documents filed with the Securities and Exchange Commission are hereby incorporated by reference:

- (a) The Company s Annual Report on Form 10-K for the fiscal year ended October 31, 2008;
- (b) The Company's Quarterly Report on Form 10-Q for the quarter ended April 30, 2009;
- (c) All other reports filed pursuant to Section 13(a) or 15(d) of the Exchange Act since the end of the year ended October 31, 2008; and
- (d) The description of the Company s Common Stock to be offered pursuant to this Registration Statement is incorporated by reference to the Company s Registration Statement on Form 8-A (File No. 0-17019), filed on October 28, 2002, including any amendment or report filed for the purpose of updating such description offered hereby.

All documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Securities Exchange Act of 1934 prior to the completion or termination of this offering of shares of Common Stock shall be deemed to be incorporated by reference in this Registration Statement and to be a part hereof from the date of filing of such documents.

Item 4. Description of Securities.

The description of the Company s Common Stock to be offered pursuant to this Registration Statement has been incorporated by reference into this Registration Statement as described in Item 3 of this Part II.

Item 5. Interests of Named Experts and Counsel.		
Not applicable		
Item 6. Indem	nification of Directors and Officers.	
indemnificatio official capacit person is not o interests of the 302A.521, sub final dispositio present at a me	of the Minnesota Statutes and Article 5 of the Company s Amended and Restated Bylaws require, among other things, the nof any person made or threatened to be made a party to a proceeding by reason of acts or omissions performed in the person s y as an officer, director, employee or agent of the Company against judgments, penalties and fines (including attorneys fees) if the herwise indemnified, acted in good faith, received no improper benefit, reasonably believed that such conduct was in the best Company, and, in the case of criminal proceedings, had no reason to believe the conduct was unlawful. In addition, Section 1. 3, of the Minnesota Statutes requires payment by the Company, upon written request, of reasonable expenses in advance of in in certain instances if a decision as to required indemnification is made by a disinterested majority of the Board of Directors eting at which a disinterested quorum is present, or by a designated committee of the Board, by special legal counsel, by the by a court. The Company also maintains insurance to assist in funding indemnification of directors and officers for certain	
Item 7. Exemp	tion from Registration Claimed.	
Not applicable		
Item 8. Exhibi	<u>ts</u> .	
<u>Exhibit</u>		
4.1 5.1 23.1 23.2 23.3 24.1	Angeion Corporation 2007 Stock Incentive Plan, as amended, incorporated by reference to Appendix A to the definitive proxy statement dated April 14, 2009 for the Annual Meeting of Shareholders held on June 3, 2009 and filed with the SEC on April 22, 2009. Opinion of Lindquist & Vennum P.L.L.P. Consent of Lindquist & Vennum P.L.L.P. (included in Exhibit 5.1) Consent of Baker Tilly Virchow Krause, LLP (formerly known as Virchow, Krause & Company, LLP), Independent Registered Public Accounting Firm Consent of KPMG LLP, Independent Registered Public Accounting Firm Power of Attorney (included on signature page)	

Item 9. Undertakings.

	(a)	The Company hereby undertakes to:
(1)	To file, du	ring any period in which offers or sales are being made, a post-effective amendment to this registration statement:
		w material information with respect to the plan of distribution not previously disclosed in the registration statement or any o such information in the registration statement;
	a new registr	ne purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed ration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be le offering thereof.
(3) termi	To remove nation of the	from registration by means of a post-effective amendment any of the securities being registered that remain unsold at the offering.
refere	e registrant's a	signed registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 that is incorporated by gistration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the ecurities at that time shall be deemed to be the initial bona fide offering thereof.
and E that a office contr settle	ns of the reginal can be a controlled by controlled by controlled by controlled by controlled by controlled.	indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers, and controlling istrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities mmission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event demnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, ling person of the registrant in the successful defense of any action, suit, or proceeding) is asserted by such director, officer, of a connected with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been ing precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public and in the Act and will be governed by the final adjudication.
SIGN	NATURES	

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Vadnais Heights, State of Minnesota, on June 12, 2009.

ANGEION CORPORATION

By /s/ Rodney A. Young Rodney A. Young, Chief Executive Officer, President

POWER OF ATTORNEY

The undersigned officers and directors of Angeion Corporation hereby constitute and Rodney A. Young and William J. Kullback, each acting alone, with power to act as our true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for us and in our stead, in any and all capacities to sign any and all amendments (including post-effective amendments) to this Registration Statement and all documents relating thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent, full power and authority to do and perform each and every act and thing necessary or advisable to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or his or her substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed below by the following persons in the capacities indicated on June 12, 2009.

/s/ Rodney A. Young Chief Executive Officer, President Rodney A. Young (principal executive officer), Director

/s/ William J. Kullback

Chief Financial Officer (principal financial
William J. Kullback

and accounting officer), Corporate Secretary

/s/ John R. Baudhuin Director

John R. Baudhuin

/s/ K. James Ehlen, M.D. Director

K. James Ehlen, M.D.

/s/ John C. Penn Director

John C. Penn

/s/ Philip I. Smith Director

Philip I. Smith

/s/ Paula R. Skjefte Director

Paula R. Skjefte