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Exhibit 32.2

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-  
OXLEY ACT OF 2002**

In connection with the Quarterly Report on Form 10-Q of American National Bankshares Inc. (the "Company") for the period ended September 30, 2010 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, William W. Traynham, Senior Vice President and Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ William W. Traynham  
William W. Traynham  
Senior Vice President and  
Chief Financial Officer

November 5, 2010

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