Measurement error in the regressor in linear regression can generally cause not only bias in parameter estimates but also problems in hypothesis testing, for example. Therefore, this work focuses on the corrected score method, which is presented using a basic type of error model, and then attempts to extend it to a generalized error model, where the mismeasurement of the regressor may not have an unbiased error but is generally a noise of a linear combination of all regressors. For the estimates of both the primary and error models, the joint asymptotic distribution is derived in this thesis, which is then examined in the simulation section for covering the true parameter values with confidence intervals and for hypothesis testing.