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Alastair Craw and **Diane Maclagan*** (maclagan@math.rutgers.edu), Department of Mathematics, Rutgers University, 110 Frelinghuysen Rd, Piscataway, NJ 08854. *GIT and Chow quotients of toric varieties.*

Let X_Σ be a toric variety, and a T a subtorus of its dense torus. The different possible GIT quotients $X_\Sigma //_\alpha T$ as α varies are recorded in a polyhedral complex. When X_Σ is quasiprojective we show that the toric variety defined by the fan over this polyhedral complex is the normalization of the toric Chow quotient of a closely related affine toric variety by a complementary torus. (Received August 16, 2006)